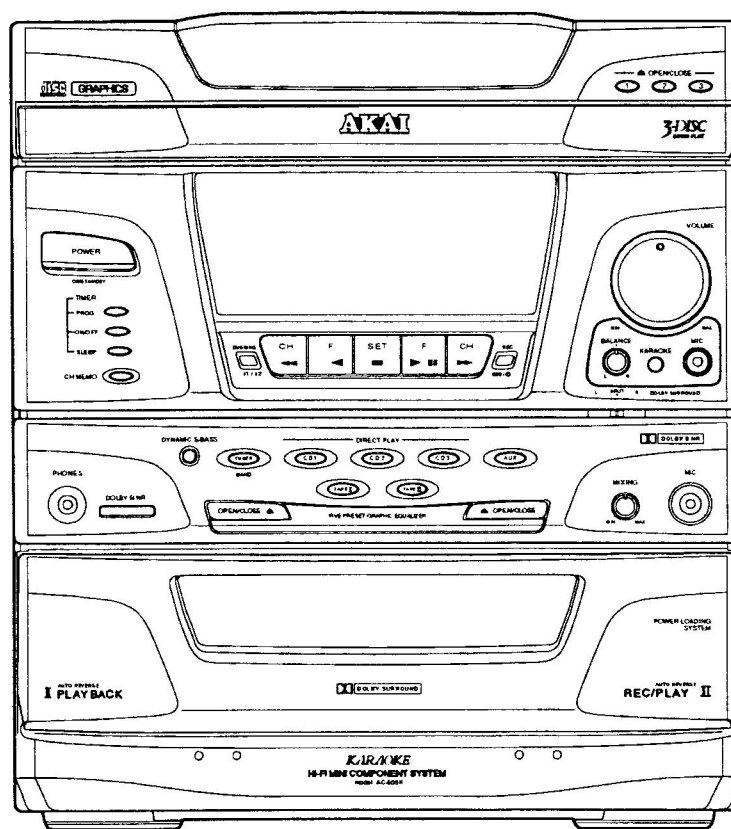


AKAI SERVICE MANUAL



MODEL AC-605K

COMPACT
disc
DIGITAL AUDIO

DOLBY B NR
DOLBY SURROUND

MINI STEREO COMPONENT SYSTEM

SYSTEM **TX-500/503R/505K**

MODEL AC-500/503R/505K & SR-500

SYSTEM **TX-600/603R/605K**

MODEL AC-600/603R/605K & SR-600

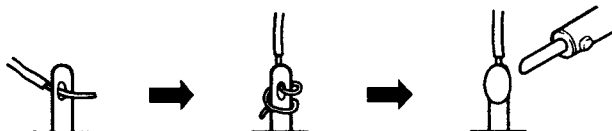
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★ SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the $\triangle$ symbol are critical for safety. Replace them only with the parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with the specified replacements.
Examples : RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially :
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially :
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (insulating barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



6. Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit. The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 μ F capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC. The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.

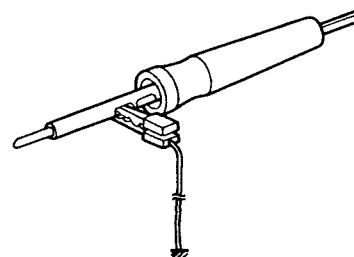
Please leave them at an appropriate depot.



PRECAUTIONS IN REPAIRING

When repairing or adjusting the unit, please note the following points.

1. Do not put excessive pressure on the mechanical part (operation part), including the pick-up block, as extremely high mechanical precision is required in these parts.
2. When the base is removed for repair or adjustment, make sure that there are no metal objects in the narrow gap between the P.C. board or the mecha parts and the base.
3. The Micro-Computer and the CD signal processing ICs can be damaged by static electricity or leakage from a soldering iron during repairing. While soldering, please take the precautions against leakage as in the illustration.



4. Do not loosen any screws in the pick-up block. When handling the pick-up block, please refer to the points to NOTE when replacing the pick up block.
5. To avoid hazardous invisible Laser Radiation, DO NOT look at the Laser Beam (Objective lens) directly.
6. On models for some countries, laser warning labels are affixed on the unit and inside of the unit, as shown below. For your safety, read these labels carefully when repairing or adjusting the unit.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

Label affixed on the rear panel of the unit.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSÅFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO : AVATTAESSA JA SUOJALUKITUS OHITETTÄESSÄ OLET ALTISTINA NÄKYVÄTTÖMÄLLE LASERSTRÄLLE.
ÄLÄ KATSO SÄTEESEEN :
VARNING : OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRÄKTA EJ STRÅLEN :

Label affixed on the left side of the CD PLAYER BLOCK of the unit.

★ INFORMATIONS

SYMBOLS FOR PRIMARY DESTINATION

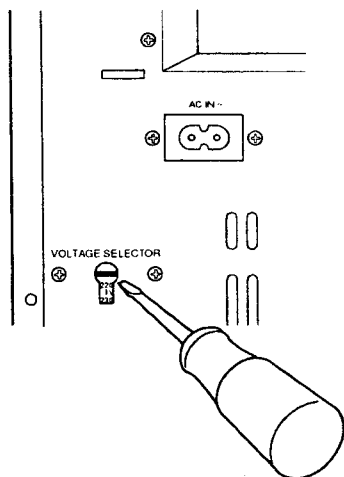
Unit destinations are indicated with letters as shown below.

Symbols	Principal Destinations
A	U.S.A
B	U.K.
C	Canada
E	Europe (except U.K.)
J	Japan
S	Australia
V	Germany
U	Universal Area
Y*	Custom version

VOLTAGE CONVERSION

(U5,U8 and Y7 version models only)

Before connecting the power cord, set the VOLTAGE SELECTOR, located on the rear panel of the unit, so that the correct voltage for your area is indicated.



TEST MODE

Various kinds of test modes are installed in this unit's micro-computer in order to test them on the production line. Following test modes among the various test modes can be used for adjustment, operation check or maintenance. To terminate the test mode, simply press the "POWER ON/STANDBY" button or disconnect the AC power cord from the AC outlet.

1. DECK TEST MODE

This test mode can be used for tape speed adjustment as well as bias oscillator frequency adjustment in the TAPE DECK section.

While pressing and holding the "TAPE I" and "■" (stop) buttons, connect the AC power cord to the AC inlet of this unit. The function turns to "TAPE I" and "DUBX1" as well as "I ▶", "II ▶" tape direction indicators on the FLD light when this mode is engaged.

Corresponding further information is shown on page 21.

2. DECK CLEANING MODE

This test mode can be used for cleaning the TAPE DECK mechanism.

Because, this mode enables engaging of the playback, fast forward (FF), and rewind (RWD) modes without a cassette tape, it makes the cleaning (such as the capstan shaft, magnetic head, pinch roller etc.,) easier.

(further more, the cassette lid remains open even if the playback or FF, RWD mode is engaged on the AC-600 series models).

While pressing and holding the "TAPE I" and "■" (stop) buttons, connect the AC power cord to the AC inlet of this unit. The "TAPE I", "I ▶", "II ▶" tape direction indicators on the FLD light when this mode is engaged. (Further more, the cassette lid will open automatically on the AC-600 series models.)

3. CD TEST MODE

This mode can be used for the operation check (step by step) or adjustment of the CD PLAYER section. Corresponding further information is shown on page 22.

While pressing and holding the "CD 1" and "■" (stop) buttons, connect the AC power cord to the AC inlet of this unit. The "TEST" indicator on the FLD will light. Only the "1" ▲ OPEN/CLOSE button can be used for loading the DISC in this mode, so the disc must be set on the "DISC 1" tray.

★ SPECIFICATIONS

[Tuner section]

FM

RDS function

(AC-503R/603R only) ... PS/CT/AF/PTY/TP

Tuning frequency range 87.5 to 108 MHz

Usable sensitivity

(E,B) 17.2 dBf (IHF, 3 % THD)

(S,U5,U8,Y6,Y7) 13.2 dBf (IHF, 3 % THD)

Quieting sensitivity

MONO

(E,B) 21.2 dBf

(S,U5,U8,Y6,Y7) 17.2 dBf

STEREO

(E,B) 35.2 dBf

(S,U5,U8,Y6,Y7) 31.2 dBf

S/N ratio (IHF)

MONO 75 dB

STEREO 65 dB

Frequency response 30 Hz to 15 kHz $\pm$ 1 dB

Total harmonic distortion

MONO 0.3 % (at 1 kHz)

STEREO 0.7 % (at 1 kHz)

Selectivity 70 dB ($\pm$ 400 kHz)

Image rejection 40 dB

Stereo separation 40 dB (at 1 kHz)

Capture ratio 2 dBf

AM suppression 60 dB

Spurious rejection 80 dB

IF rejection

(B,E) 70 dB

(S,U5,U8,Y6,Y7) 90 dB

MW

Tuning frequency range

(B,E,S and Y7) 531 to 1602 kHz (9 kHz step)

(U5,U8 and Y6) 531 to 1602 kHz (9 kHz step) or

530 to 1710 kHz (10 kHz step) selectable

Usable sensitivity 500 μ Vm

S/N ratio 40 dB

Selectivity 25 dB

Image rejection 35 dB

IF rejection 60 dB

LW (except AC-505K/605K & AC-500/600 Y7 version)

Tuning frequency range

(AC-500/600 B,E) 144 to 288 kHz (5 kHz step)

(AC-503R/603R E) 144 to 288 kHz (1 kHz step)

Usable sensitivity 800 μ Vm

S/N ratio 30 dB

Selectivity 30 dB

Image rejection 35 dB

IF rejection 60 dB

SW (AC-505K/605K Y7 version only)

Tuning frequency range 3.8 to 12.5 MHz (5 kHz step)

Usable sensitivity 800 μ Vm

S/N ratio 30 dB

Selectivity 25 dB

Image rejection 15 dB

IF rejection 60 dB

[CD section]

Type 3 discs auto changer

Pick up system 3 beam laser pick-up

Sampling frequency 44.1 kHz

Error correction system Cross interleave reed solomon

Frequency response 20 to 20,000 Hz $\pm$ 1 dB

S/N ratio 83 dB (A-weight)

Dynamic range 82 dB

Wow & flutter Less than measurable limits

Total harmonic distortion 0.04 % (at 1 kHz)

Channel separation 72 dB (at 1 kHz)

CD-G video signal PAL/NTSC (AC-605K only)

[DECK section]

Track system 4 track 2 channel system

Wow & Flutter 0.09 % (WRMS), 0.15 % (DIN)

Frequency response

Normal 40 Hz to 15 kHz $\pm$ 3 dB

CrO2 40 Hz to 16 kHz $\pm$ 3 dB

S/N ratio

Dolby B 63 dB (5 kHz)

Dolby off 53 dB (CrO2 tape)

Total harmonic distortion Less than 0.5 %

(normal tape, at 315 Hz)

Channel separation 43 dB (normal tape)

[Amplifier section]

Power output

AC-500/503R/505K 35 W + 35 W

(6 ohms, 1 kHz, 10 % THD, EIAJ)

30 W + 30 W

(6 ohms, 1 kHz, 1 % THD, DIN)

AC-600/603R/605K

2 channel drive 38 W + 38 W

(6 ohms, 1 kHz, 10 % THD, EIAJ)

30 W + 30 W

(6 ohms, 1 kHz, 1 % THD, DIN)

3 channel drive

(Dolby surround ON) .. 35 W + 35 W (8 ohms) & 15 W (8+8

ohms) (1 kHz, 10 % THD, EIAJ)

28 W + 28 W (6 ohms) & 13 W (8+8

ohms) (1 kHz, 1.0 % THD, DIN)

Music power output

AC-500/503R/505K 370 W (L / R total)

AC-600/603R/605K 440 W (L / R total)

Peak music power output

AC-500/503R/505K 520 W (L / R total)

AC-600/603R/605K 610 W (L / R total)

Frequency response

10 Hz to 100 kHz

(10 Hz : -4 dB, 100 kHz : -3 dB)

Required speaker impedance

Front speaker 6 to 16 ohms

Surround speaker 8 to 16 ohms

Input sensitivity

AUX 350 mV/47 k ohms

S/N ratio 85 dB (A-weight)

Residual noise 0.8 mV (A-weight)

Channel separation 63 dB

Super bass effects 0 to 10 dB/70 Hz

[General]

Power requirements

(B,E) AC 220 V to 230 V, 50 Hz

(S) AC 240 V, 50 Hz

(U5,U8,Y6,Y7) AC 110/127/220 to 230/240 V, 50/60 Hz

Power consumption 100 W (IEC65)

Dimensions 270 (W) x 307 (H) x 343 (D) mm

Weight

AC-500/503R/505K 7.5 kg

AC-600/603R/605K 8.0 kg

Standard accessories

Remote control unit x 1

Batteries (UM-3) x 2

Operator's manual x 1

FM wire antenna x 1

AM loop antenna x 1

Antenna Plug adapter x 1

AC plug adapter x 1 (U5,U8 and Y7 version only)

※ For improvement purposes, specifications and design are subject to change without notice.

※ Manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the  symbol are trademarks of Dolby Laboratories Licensing Corporation.

	SR-500	SR-600
[SPEAKER section]		
System constructions	3-Way, 3 speakers	3-Way, 3 speakers
Woofer unit	135 mm P.cote cone type	135 mm cone type
Midrange unit	57 mm cone type	57 mm cone type
Tweeter unit	20 mm cone type	40 mm cone type
System impedance	6 ohms	6 ohms
Maximum power input	50 W	55 W
Sensitivity	87 dB /Wb/m	87 dB /Wb/m
Frequency range	55 Hz to 20 kHz	50 Hz to 20 kHz
Harmonic distortion	Less than 3 %	Less than 3 %
Enclosure type	Bass reflex type	Front bass reflex
Units layout	L/R mirror layout	L/R mirror layout
Front grille	Detachable grille (cloth)	Detachable grille (cloth)
Dimensions (with grille)	180 (W) x 305 (H) x 290 (D)	204 (W) x 305 (H) x 290 (D)
Net weight	3.4 kg/pc	4.0 kg/pc
Magnetically shield	Non	Yes
Enclosure finish	Black P.V.C.	Black P.V.C.

※ For improvement purposes, specifications and design are subject to change without notice.

II. PRINCIPAL PARTS LOCATION

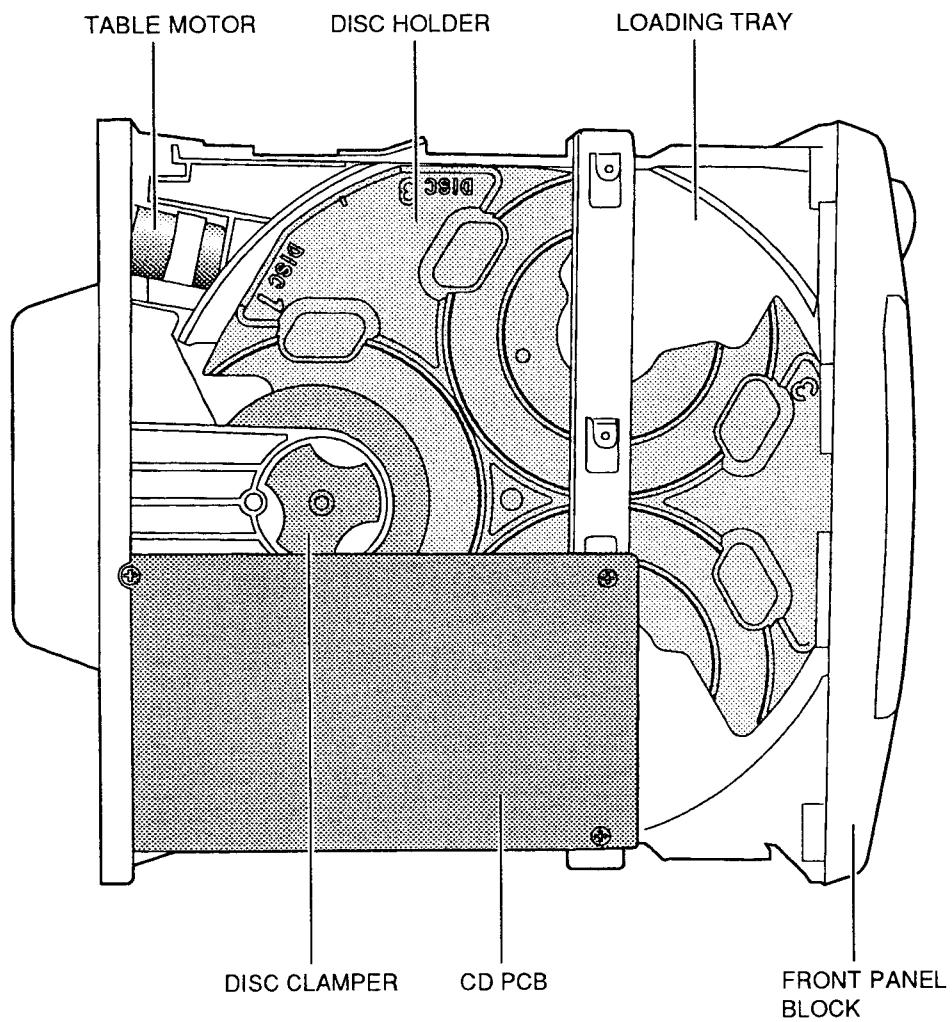


Fig. 2-1 Top view

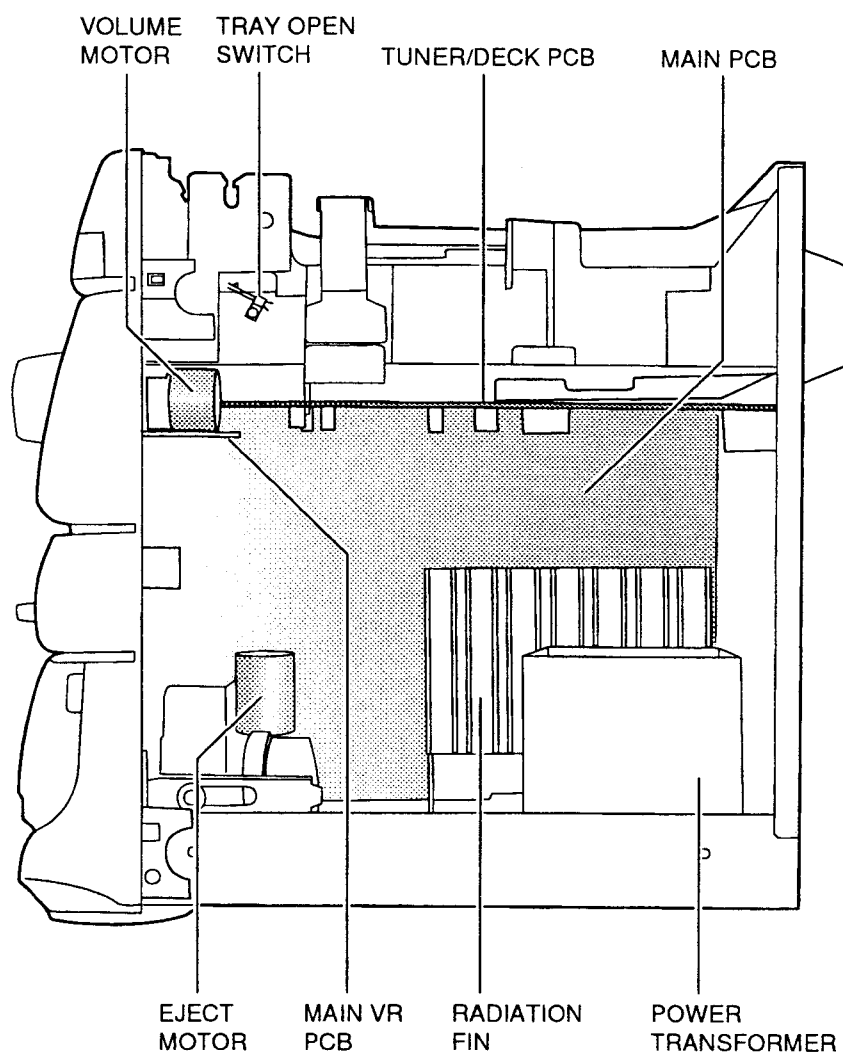


Fig. 2-2 Side view

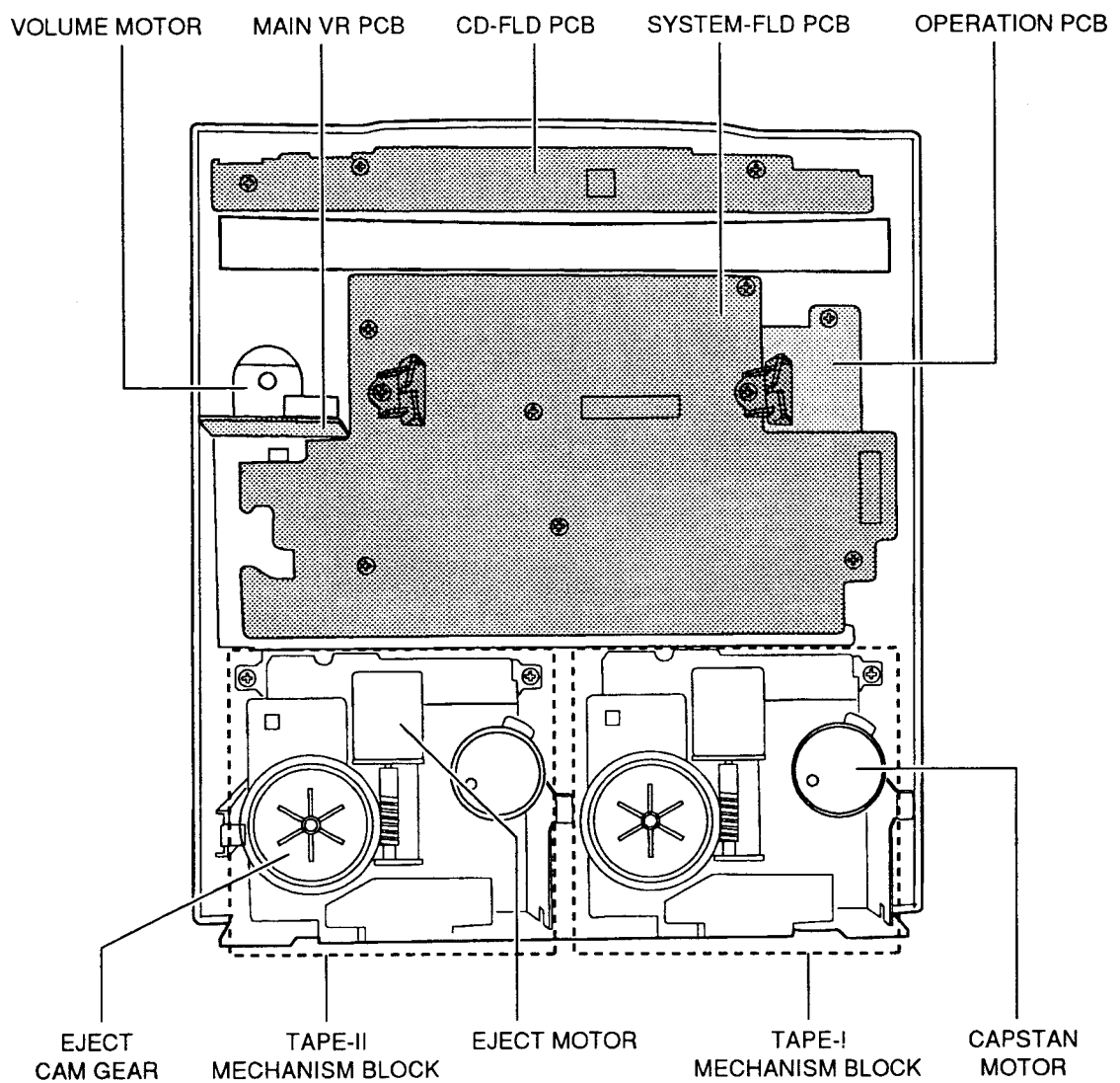


Fig. 2-3 FRONT PANEL (reverse side)

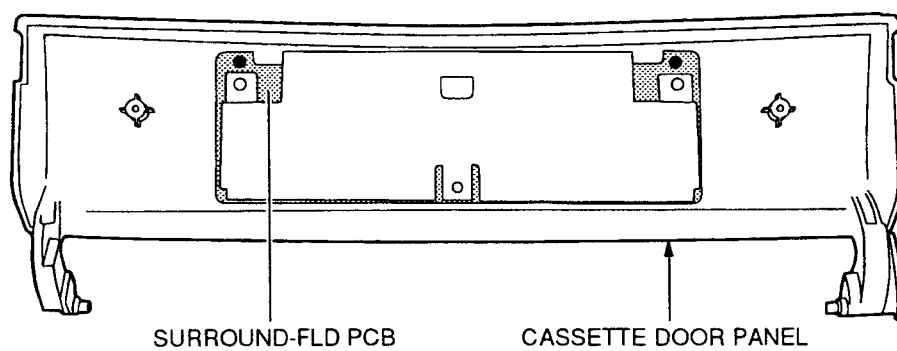


Fig. 2-4 CASSETTE DOOR (AC-600 series only)

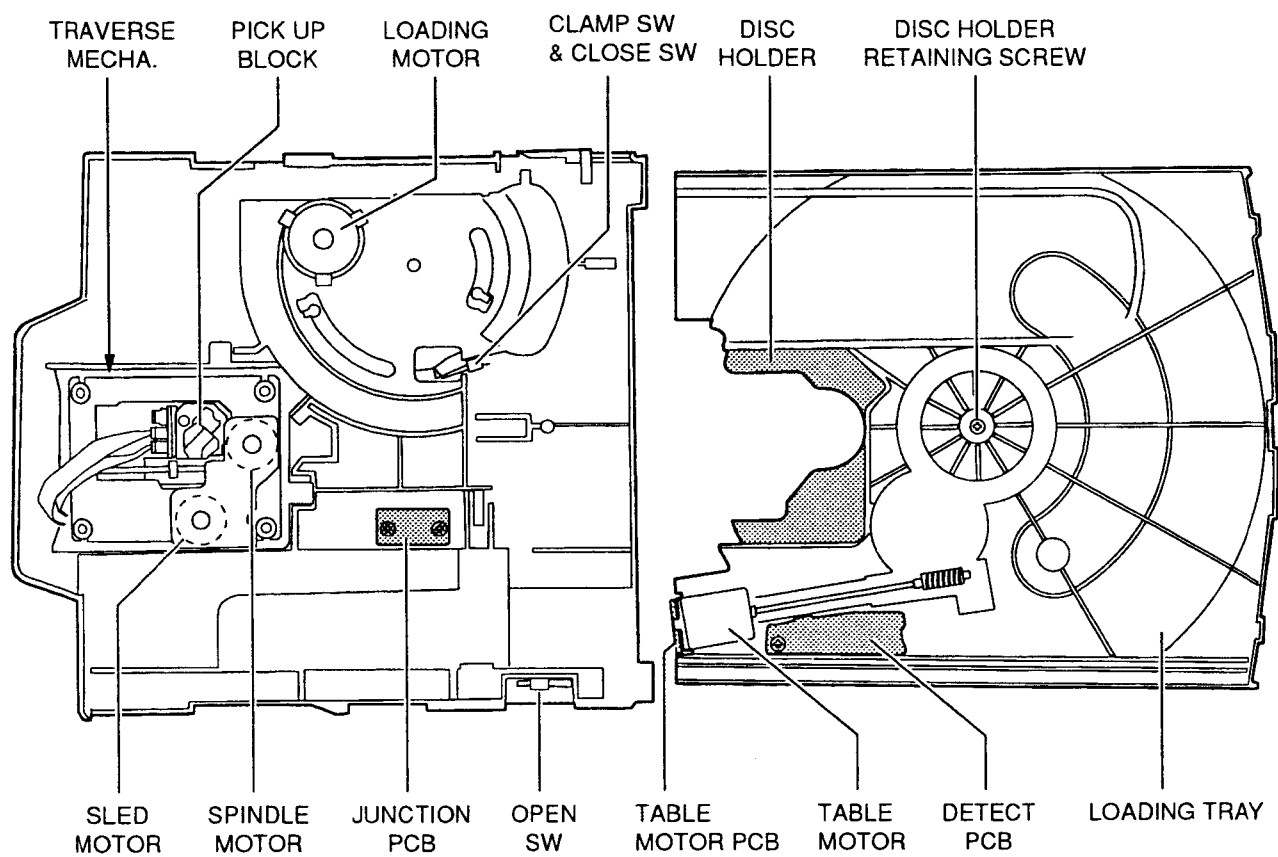


Fig. 2-5 CD PLAYER BLOCK

III. DISASSEMBLY OF THE MAIN COMPONENTS

3-1. CD PLAYER BLOCK

* Remove the CD PLAYER BLOCK before proceeding (refer to section 1-3).

3-1-1. Removal of the TRAVERSE MECHA.

1) Remove the TRAVERSE COVER by releasing the two tabs in the direction of the arrow as shown in Fig. 3-1.

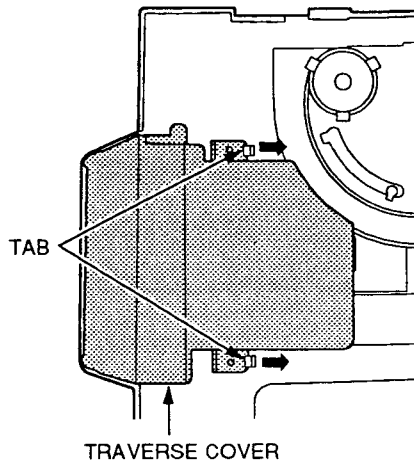


Fig. 3-1

2) Short the circuit on the PICK UP BLOCK with solder as shown in Fig. 3-2.

Note : To protect the laser diode from damage caused by high voltage static electricity, a part of the PCB on the PICK UP BLOCK has to be shorted before disconnecting the connectors. After replacement, be sure to connect the two connectors and then remove the solder of the shorted circuit before turning the power ON.

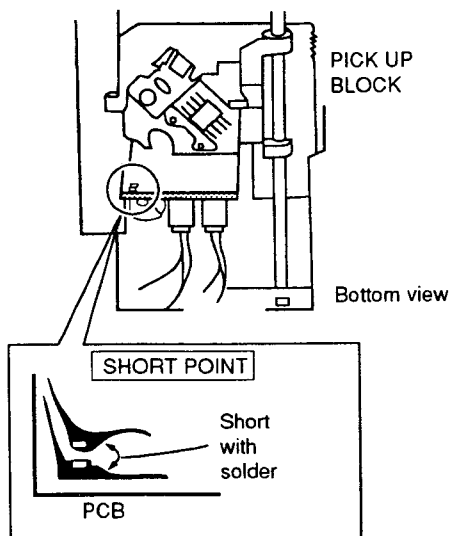


Fig. 3-2

3) Disconnect the three connectors carefully (two connectors are on the PICK UP's PCB and the other is on the MOTOR PCB of the TRAVERSE MECHA.).

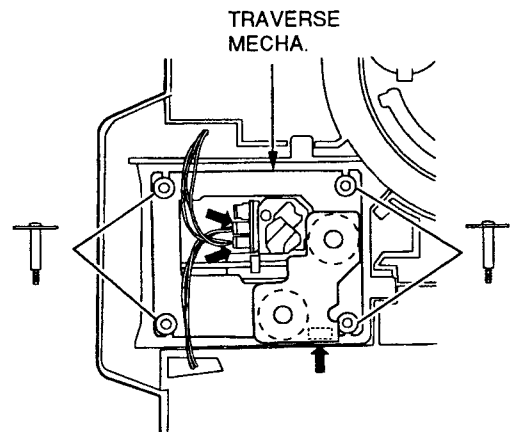


Fig. 3-3

4) Remove the four retaining screws, then remove the TRAVERSE MECHA.

5) Proceed in the reverse order for installation but never unsolder the shorted circuit before connecting the three connectors.

3-1-2. Replacement of the SLED MOTOR

1) Remove the TRAVERSE MECHA (refer to section 3-1-1).

2) Unsolder the leads of the SLED and SPINDLE MOTORS then remove the MOTOR PCB.

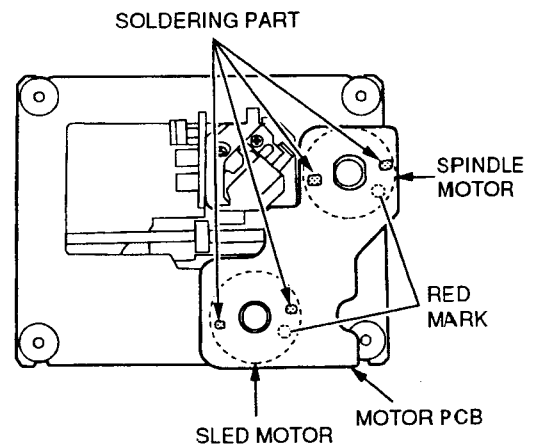


Fig. 3-4

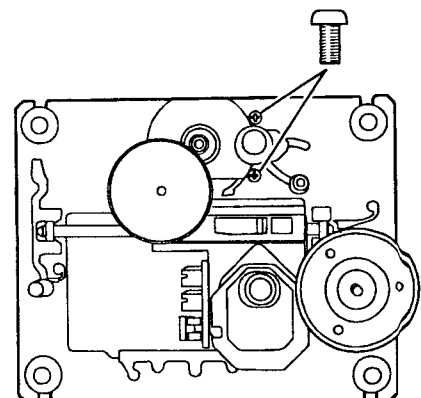


Fig. 3-5

- 3) Remove the two retaining screws, then remove the SLED MOTOR.

Next, extract the plastic gear from the motor shaft and attach it onto the new motor's shaft.

- 4) Reassemble in the reverse order.

About the SPINDLE MOTOR:

Replacement of the SPINDLE MOTOR itself is not recommended, because adjustment of the TURN TABLE height is quite critical and requires the use of a special jig.

3-1-3. Replacement of the PICK UP BLOCK

- 1) Remove the TRAVERSE MECHA (refer to section 3-1-1).
- 2) While pressing the Ⓐ stopper upwards, pull the SLIDE SHAFT to the right to remove the PICK UP BLOCK, then replace the PICK UP BLOCK.

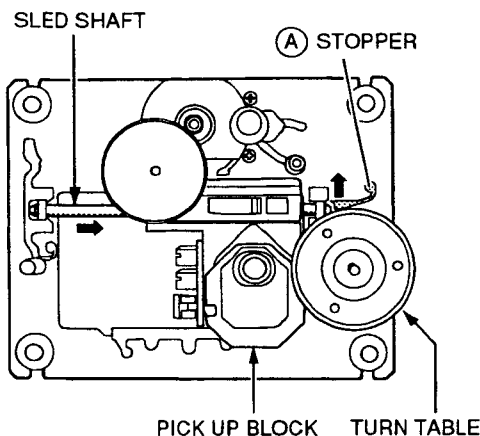


Fig. 3-6

- 3) Reassemble in the reverse order.

3-1-4. Replacement of the LOADING MOTOR

- 1) Slide the protruding part of the GEAR HOLDER PART in the direction of the arrow, then pull out the TRAY BLOCK.

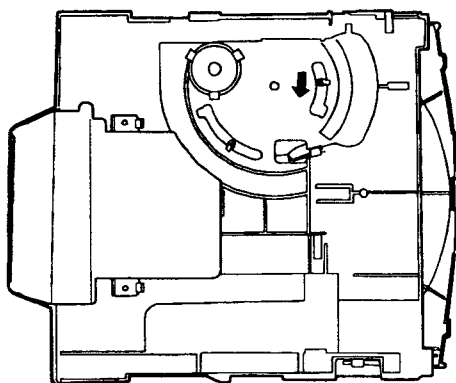


Fig. 3-7

- 2) Unhook the LOADING BELT with tweezers.

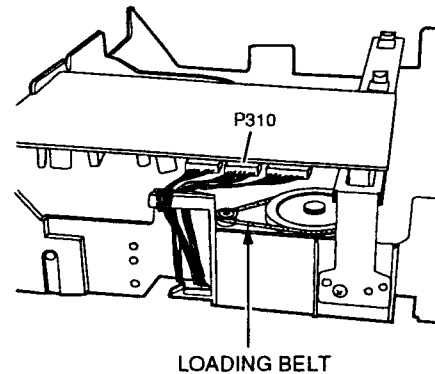


Fig. 3-8

- 3) Unsolder the lead wires of the LOADING MOTOR with a soldering iron.
- 4) While releasing the LOADING MOTOR's three retaining hooks, push the motor pulley part down with your middle finger to remove the LOADING MOTOR, then replace it.

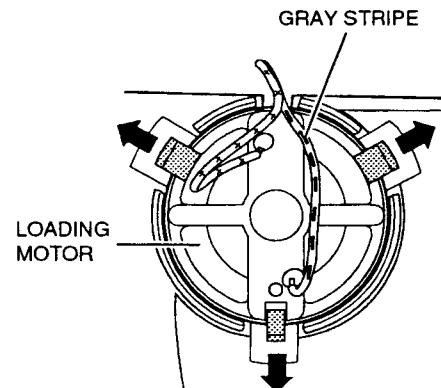


Fig. 3-9

- 5) Reassemble in the reverse order. Make sure that the wire with the gray stripe is connected to the motor's ○ marked terminal when soldering.

3-1-5. Removal of the TRAY BLOCK

- 1) If the TRAY BLOCK is in the "in" position, slide the protruding part of the GEAR HOLDER PART in the direction of the arrow and pull out the TRAY BLOCK slowly (refer to Fig. 3-7).
- 2) Disconnect the P310 connector on the CD PCB as shown in Fig. 3-8 then unthread its cable on the TRAY BLOCK.
- 3) In order to disengage the two stoppers, carefully press the Ⓐ part of the TRAY BLOCK downwards while pulling the TRAY BLOCK out as shown in Fig. 3-10.

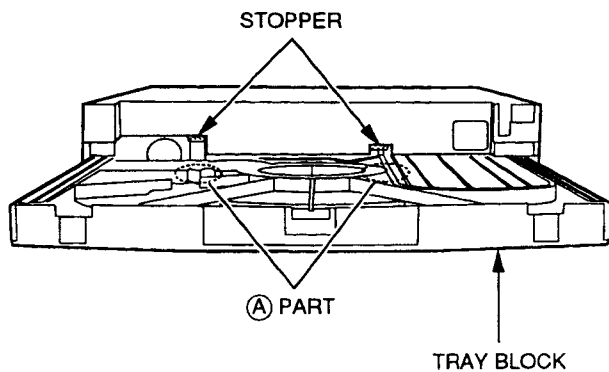


Fig. 3-10

- 4) Remove the TRAY BLOCK by pulling it out carefully.
- 5) Reassemble in the reverse order for installation. When reattaching the TRAY BLOCK to the chassis, carefully align the guides on both sides of the TRAY BLOCK with their corresponding rails on the chassis. Also, make sure that any one of the reference marks on the DISC HOLDER aligns with the reference mark on the LOADING TRAY.

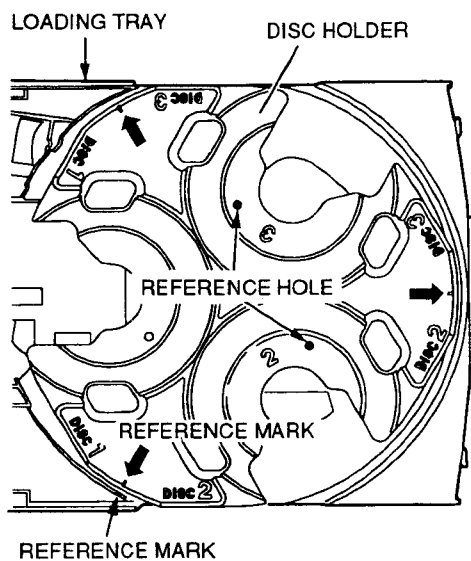


Fig. 3-11

Next, move the head of the GEAR HOLDER PART in the direction of the arrow before engaging the stoppers as shown in Fig. 3-12.

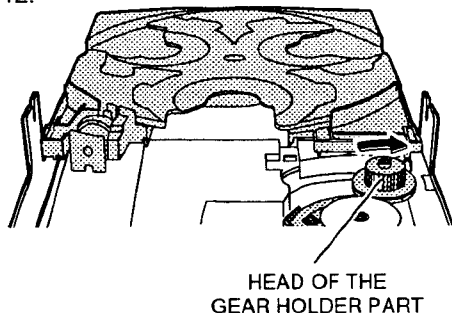


Fig. 3-12

3-1-6. Replacement of the TABLE MOTOR

- 1) Remove the TRAY BLOCK (refer to section 3-1-5).
- 2) Remove the DISC HOLDER retaining screw then remove the DISC HOLDER.

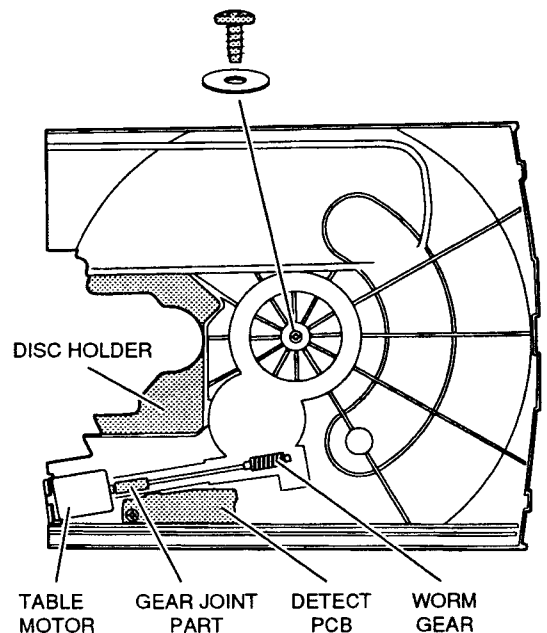


Fig. 3-13

- 3) Unsolder the leads of the TABLE MOTOR and remove the TABLE MOTOR PCB.

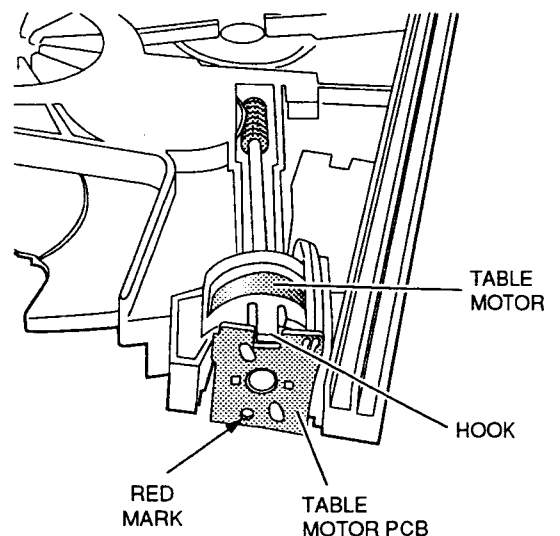


Fig. 3-14

- 4) Remove the TABLE MOTOR by pulling it out while opening the TABLE MOTOR retaining hook. Next, remove the WORM GEAR BLOCK by pulling the GEAR JOINT PART out and attach it to the new motor as shown in Fig. 3-13.
- 5) Reassemble in the reverse order.
 - When soldering the TABLE MOTOR PCB on the TABLE MOTOR, the TABLE MOTOR's red mark must be visible through the hole on the TABLE MOTOR PCB.
 - When attaching the DISC HOLDER on the LOADING TRAY, make sure to place the DISC HOLDER so that any one of the three reference marks aligns with the reference mark on the LOADING TRAY (any two reference holes on the DISC HOLDER align with the corresponding reference holes on the LOADING TRAY accordingly). (Refer to Fig. 3-11)

3-2. TAPE-I & TAPE-II MECHANISM BLOCK

* If CASSETTE MECHANISM BLOCK removal is intended, press both the "EJECT" buttons on the FRONT PANEL to open the CASSETTE HOLDERS and CASSETTE DOOR before proceeding (AC-600/603R/605K only).

3-2-1. Removal of the MECHANISM BLOCK

[For AC-500/503R/505K models]

- 1) Remove the FRONT PANEL BLOCK (refer to section 1-2 on page 7).
- 2) Remove the four screws for each of the TAPE-I and TAPE-II MECHANISM BLOCKs then remove the MECHANISM BLOCKs from the FRONT PANEL BLOCK.

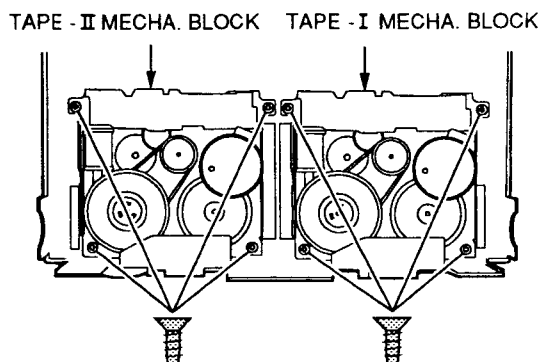


Fig. 3-15

[For AC-600/603R/605K models]

- 1) Remove the FRONT PANEL BLOCK (refer to section 1-2 on page 7).
- 2) Unhook the DOOR SPRING on the TAPE-I MECHANISM BLOCK.

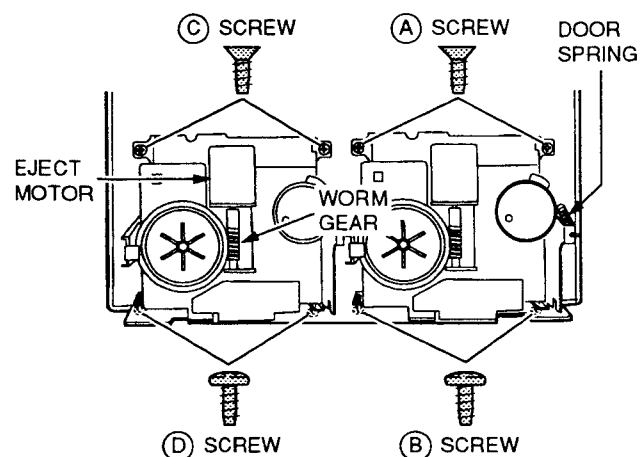


Fig. 3-16

- 3) Remove the two (A) screws and two (B) screws (on the bottom) for removal of the TAPE-I MECHANISM BLOCK from the FRONT PANEL BLOCK. If the cassette holder is closed at this point, turn the EJECT MOTOR's WORM GEAR manually to open it
- 4) Remove the two (C) screws and two (D) screws (on the bottom) for removal of the TAPE-II MECHANISM BLOCK.

3-2-2. Replacement of the EJECT MOTOR (AC-600/603R/605K only)

- 1) Remove the (A) graduated screw and remove the EJECT ARM and the EJECT TORSION SPRING as shown in Fig. 3-17.

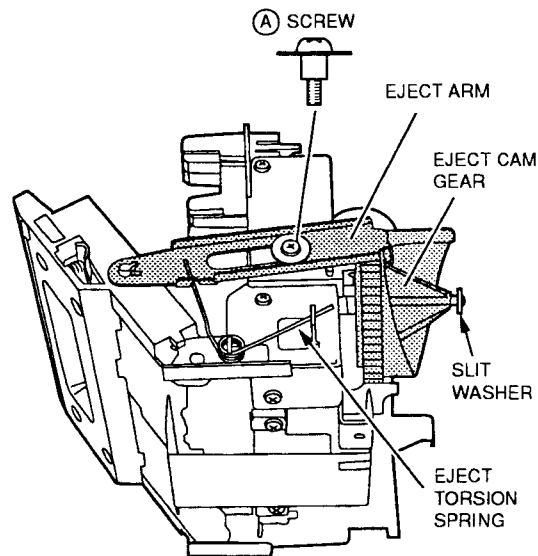


Fig. 3-17

- 2) Remove the slit washer and remove the EJECT CAM GEAR.
- 3) Unsolder the two lead wires and remove the two retaining screws then remove the EJECT MOTOR and extract the WORM GEAR.

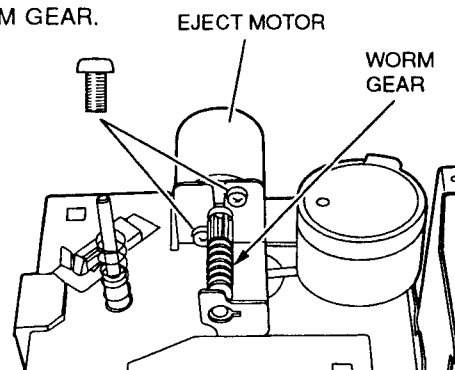


Fig. 3-18

- 4) Attach the WORM GEAR onto the new EJECT MOTOR's shaft and install it.
- 5) Reassemble in the reverse order for installation. Make sure that the wire with small red dotted line is connected to the motor's red marked terminal when soldering.

3-2-3. Replacement of the CAPSTAN MOTOR

NOTE : After replacement, tape speed adjustment must be performed.

[For AC-500/503R/505K models]

- 1) Unsolder the flat cable on the CAPSTAN MOTOR with a soldering iron.
- 2) While pressing the INTER-LOCK LEVER in the direction of the arrow, remove the two (B) screws and then remove the CAPSTAN MOTOR.

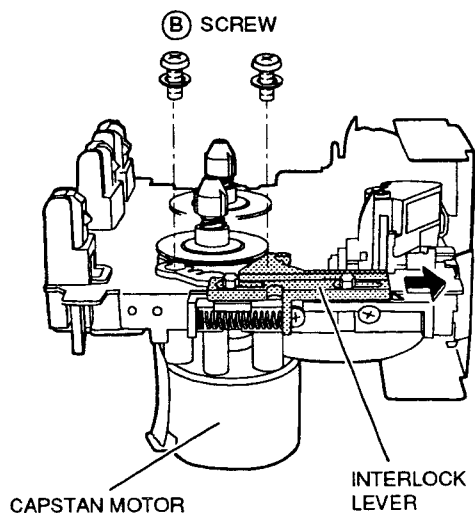


Fig. 3-19

NOTE : Only the TAPE-II MECHANISM BLOCK has the INTER-LOCK LEVER on the left side of the mechanism.

- 3) Install a new motor and re-assemble in the reverse order for installation.

[For AC-600/603R/605K models]

- 1) Unsolder the flat cable on the CAPSTAN MOTOR with a soldering iron.
- 2) Remove the (A) graduated screw and remove the EJECT ARM and the EJECT TORSION SPRING as shown in Fig. 3-20)

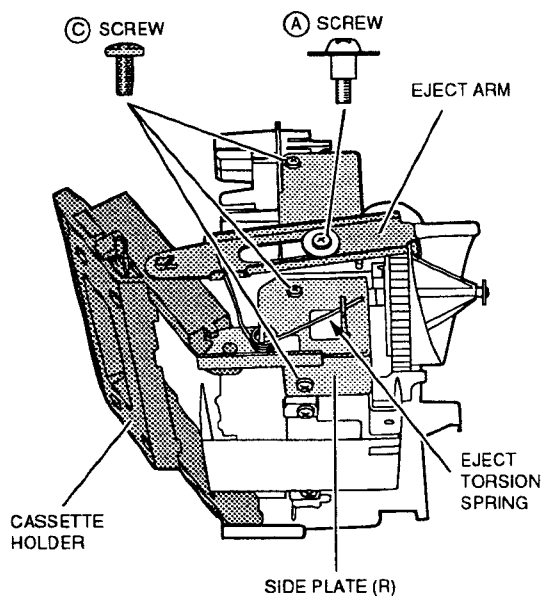


Fig. 3-20

- 3) Remove the three (C) screws and remove the SIDE PLATE (R).
- 4) Remove the CASSETTE HOLDER.
- 5) Remove the two (B) screws then remove the CAPSTAN MOTOR.

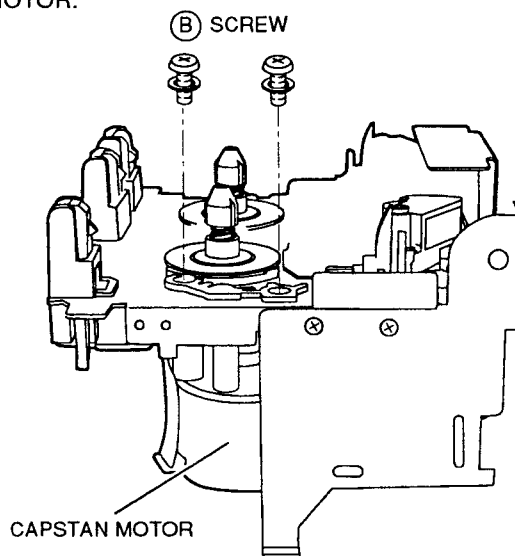


Fig. 3-21

- 6) Install a new motor and re-assemble in the reverse order for installation.

3-2-4. Replacement of the FR BELT

- 1) Remove the (A) graduated screw and remove the EJECT ARM and the EJECT TORSION SPRING as shown in Fig. 3-20)
- 2) Remove the three (C) screws then remove the SIDE PLATE (R) and CASSETTE HOLDER shown in Fig. 3-20.
- 3) Unthread the MAIN BELT and replace the FR BELT as shown in Fig. 3-22.
- 4) Proceed in the reverse order for installation.

NOTE : steps 1) and 2) are for AC-600/603R/605K models only.

3-2-5. Replacement of the MAIN BELT

- 1) Remove the CAPSTAN MOTOR (refer to section 3-2-3, step 2) to 5) for AC-600 series models).
- 2) Replace the MAIN BELT and re-assemble in the reverse order for installation.

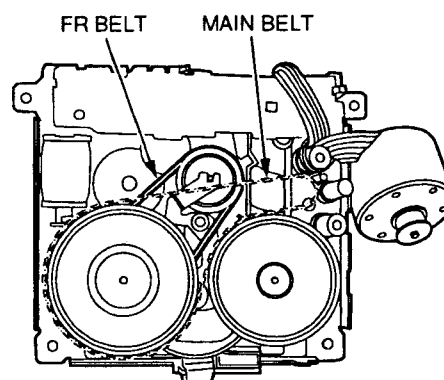


Fig. 3-22

- 3) After replacement, check the tape speed and if the result is not satisfactory, tape speed adjustment must be performed.

3-2-6. Replacement of the PINCH ROLLER BLOCK

- 1) Extract the PINCH ROLLER BLOCK upwards while releasing the pinch roller retaining hook in the direction of the arrow.

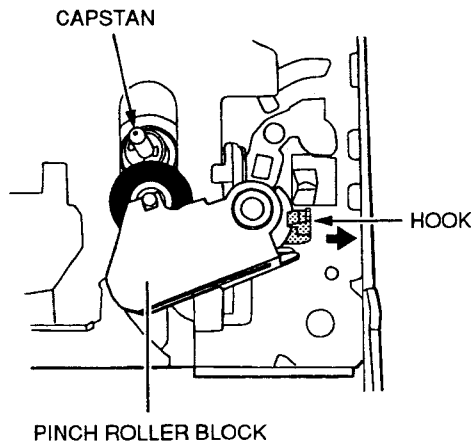


Fig. 3-23

- 2) Replace the PINCH ROLLER BLOCK and re-assemble in the reverse order. Attach the spring in the correct position when placing the PINCH ROLLER BLOCK.

3-2-7. Replacement of the PB HEAD OR REC/PB HEAD

- 1) Remove the two (A) screws and remove the HEAD SHIELD PLATE as shown in Fig. 3-24.

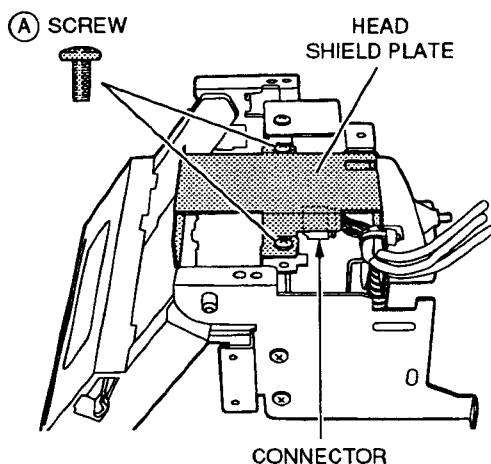


Fig. 3-24

- 2) Disconnect the connector on the CONNECTOR PCB and remove the PCB retaining screw.

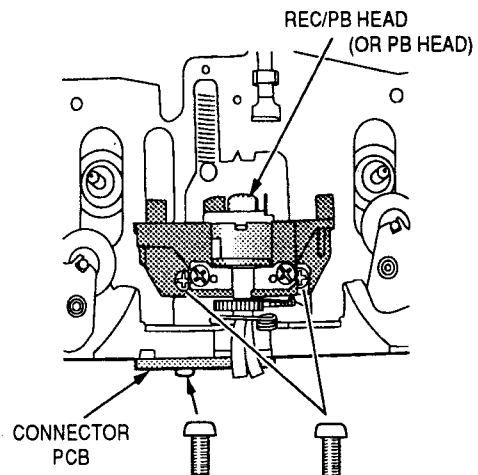


Fig. 3-25

- 3) Remove the two head retaining screws and remove the HEAD BLOCK.
- 4) Reassemble in the reverse order. After replacement, demagnetize the HEAD then perform head azimuth adjustment.

3-3. FRONT PANEL BLOCK

3-3-1. Removal of the FRONT PANEL BLOCK

- 1) Remove the FRONT PANEL BLOCK (refer to section 1-2 on page 7).

3-3-2. Removal of the SYSTEM-FLD PCB

- 1) Disconnect the P4 connector on the SYSTEM-FLD PCB.
- 2) Remove the two (A) screws and remove both the PCB HOLDERS.

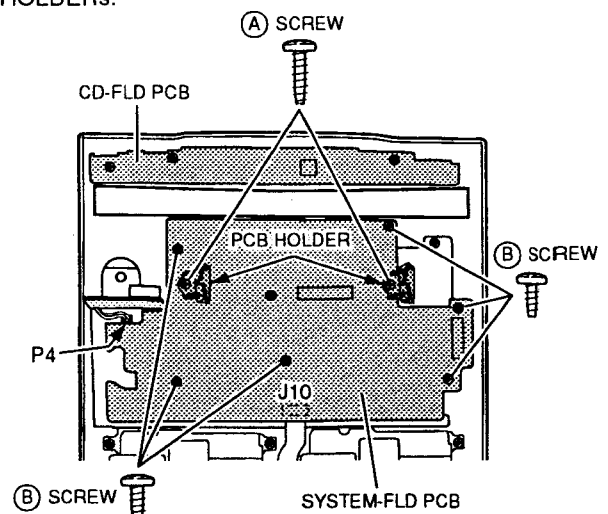


Fig. 3-26

- 3) Remove the six (B) screws then remove the SYSTEM-FLD PCB by pulling it upwards carefully.
- 4) Disconnect the flat cable on the J10 connector on the SYSTEM-FLD PCB (AC-600/603R/605K models only).
- 5) Re-assemble in the reverse order for installation.

3-3-3. Removal of the OPERATION PCB

- 1) Remove the SYSTEM-FLD PCB (refer to section 3-3-2).
- 2) Remove the "VOLUME" control knob by pulling it out and then remove the VOLUME control retaining nut.
- 3) Remove the "BALANCE" and "MIXING" control volume knobs by pulling them out.
- 4) Remove the ten © screws and remove the OPERATION PCB.

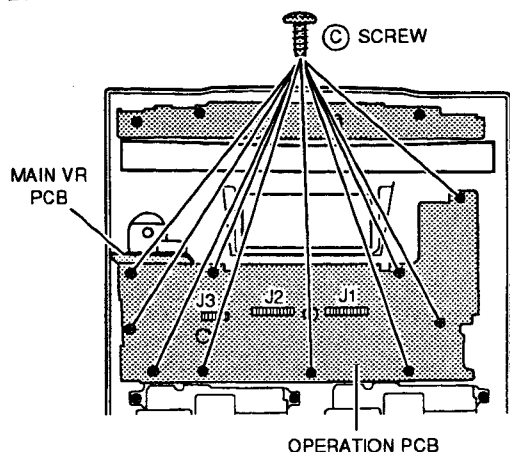


Fig. 3-27

- 5) Re-assemble in the reverse order for installation. When reattaching the SYSTEM-FLD PCB onto the OPERATION PCB, carefully align the position of the three connectors.

NOTE : The BALANCE volume and J3 connector are for AC-600 series models only.

3-3-4. Removal of the SURROUND-FLD PCB. (AC-600/603R/605K models only)

- 1) Remove the TAPE-I and TAPE-II MECHANISM BLOCK (refer to section 3-2-1).
- 2) Remove the SYSTEM-FLD PCB and disconnect the J10 connector if necessary.
- 3) First, disengage the left DOOR STOPPER from the holder on the FRONT PANEL.

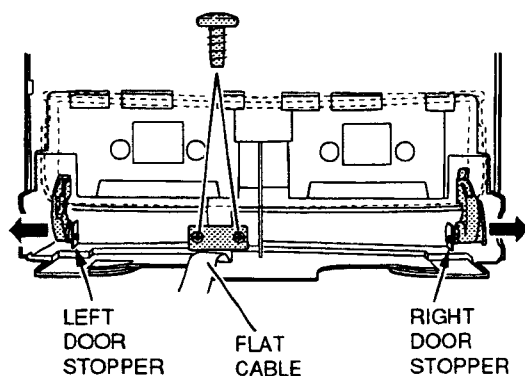


Fig. 3-28

Next, disengage the right DOOR STOPPER very carefully from the holder while moving the left DOOR STOPPER in the lower outward direction and remove the DOOR BLOCK from the FRONT PANEL BLOCK.

- 4) Remove the five retaining screws on the DOOR COVER then remove the DOOR COVER.

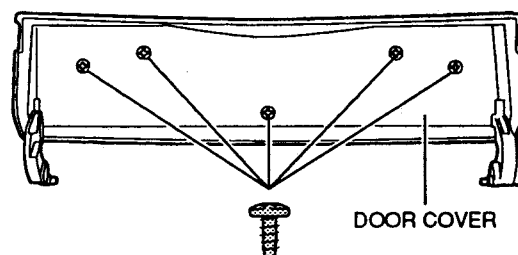


Fig. 3-29

- 5) Remove the SURROUND-FLD PCB from the DOOR PART.
- 6) Proceed in the reverse order for installation. When placing the SURROUND-FLD PCB on the DOOR PART, align the two holes on the SURROUND-FLD PCB with their corresponding bosses on the DOOR PART.

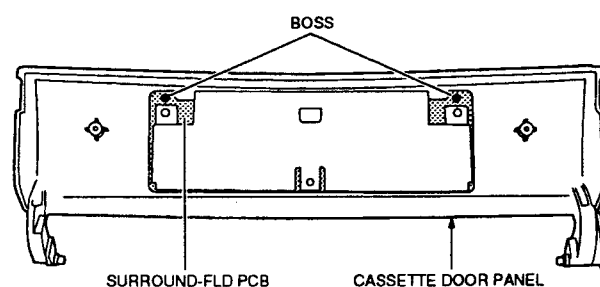


Fig. 3-30

IV. MECHANICAL ADJUSTMENT

4-1. ADJUSTMENT OF THE HEAD AZIMUTH ALIGNMENT

- 1) Connect an oscilloscope to the L-ch and R-ch speaker terminals of the unit. Set the VOLUME control on the FRONT PANEL at the appropriate level (ie, the output level is not too low or too high).
- 2) Play back a 10 kHz (-15 dB), HEAD AZIMUTH ALIGNMENT TEST TAPE (TF-106CH) then adjust the HEAD AZIMUTH ALIGNMENT Ⓐ (FWD PLAY) and Ⓑ (REV PLAY) SCREWS respectively so that the waveform level of both the L-ch and R-ch are at maximum and also they are in the same phase in both FWD and REV directions. (Use a sharp edge philips type screwdriver that is de-magnetized for adjustment.)
Perform the adjustment on both the TAPE-I and TAPE-II heads if necessary.

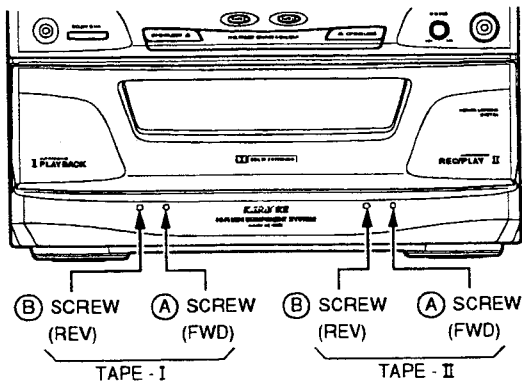


Fig. 4-1

V. ELECTRICAL ADJUSTMENT

5-1. TAPE DECK SECTION

NOTE :

1) The following adjustment should be performed in the "DECK test mode".
To engage the DECK test mode, connect the AC power cord to the AC outlet while pressing the "TAPE-II" and "■ (stop)" buttons together. When the "DECK test mode" is engaged, the "DUBX1" indicator on the FL display will light.

2) When performing the tape speed adjustment, observe the following notes.

- Adjustment should be started more than 30 seconds after the power is switched ON.
- Adjustment should be made on X2 speed mode first then adjust the normal speed mode.
- Adjustment should be made in the forward direction.

3) To disengage the "DECK test mode", press the "POWER" button or unplug the AC power cord from the AC outlet.

STEP	ADJUSTMENT
1.	Test tape/input signal
2.	Mode
3.	Check point, adjustment part
4.	Remarks (•) and result (*)

Adjustment Part

Test Point

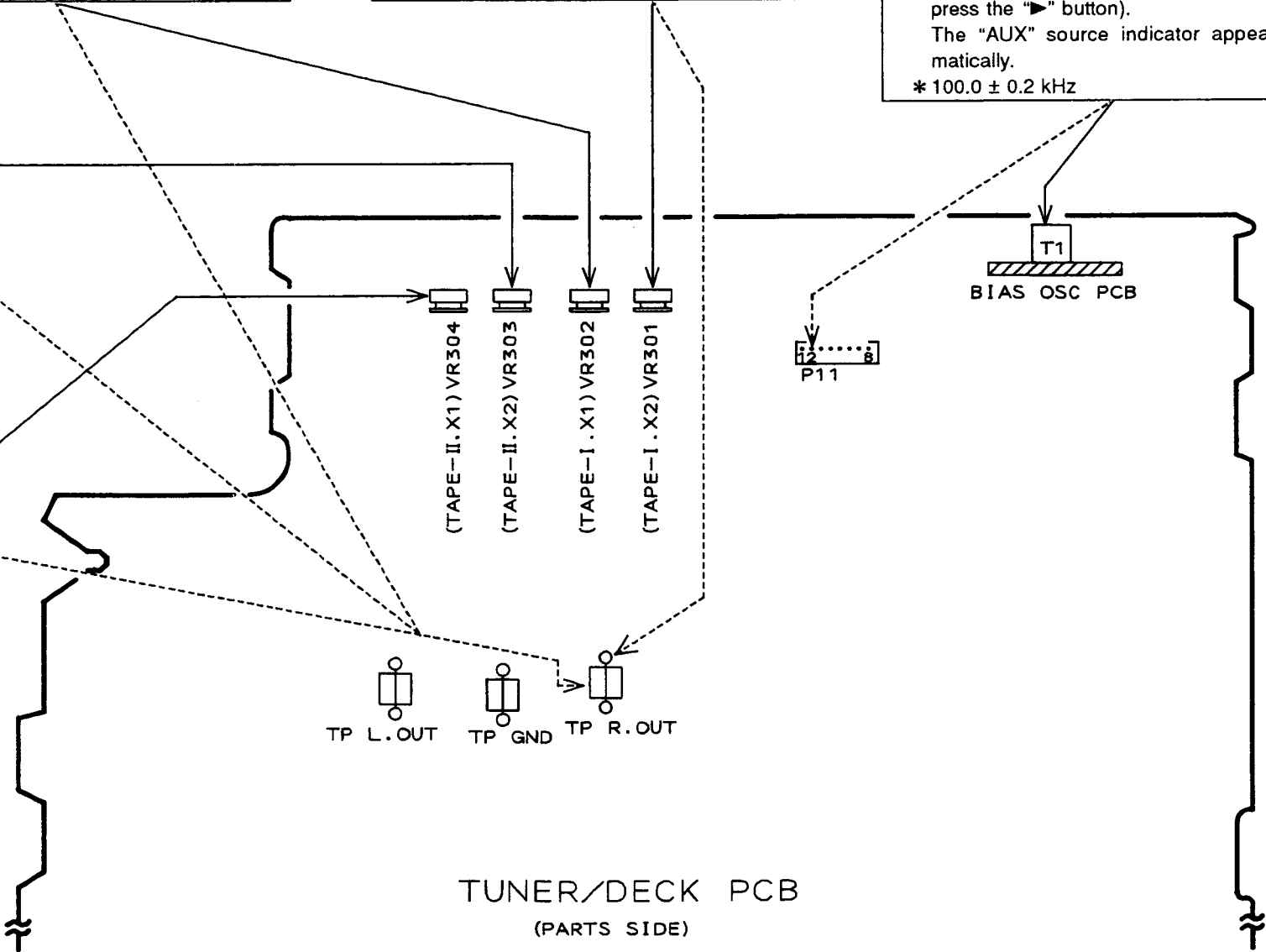
2	TAPE-I NORMAL TAPE SPEED
1.	3,150 Hz test tape (TF-110CT)
2.	TAPE-I, PLAY
3.	TP-R.OUT, VR302
4.	• Connect a frequency counter to the TP-R.OUT and press the "DUBBING" button again to resume normal tape speed. * 3,150 ± 10 Hz

1	TAPE-I (X2) TAPE SPEED
1.	3,150 Hz test tape (TF-110CT)
2.	TAPE-I, PLAY
3.	TP-R.OUT, VR301
4.	• Connect a frequency counter to the TP-R.OUT (or L.OUT) and press the "DUBBING" button to engage double speed. * 6,340 ± 20 Hz

5	BIAS OSC FREQUENCY
1.	Normal type blank tape
2.	TAPE-II, REC
3.	P11 @ pin, T1
4.	• Connect a frequency counter between P11 @ pin and GND. (10 : 1 probe should be used to avoid affecting the measurement.) • Start a recording (press the "REC" button then press the "▶" button). The "AUX" source indicator appears automatically. * 100.0 ± 0.2 kHz

3	TAPE-II (X2) TAPE SPEED
1.	3,150 Hz test tape (TF-110CT)
2.	TAPE-II, PLAY
3.	TP-R.OUT, VR303
4.	• Press the "TAPE-II" button and play back the test tape. • Connect a frequency counter to the TP-R.OUT and press the "DUBBING" button to engage double speed. * 6,320 ± 20 Hz

4	TAPE-II NORMAL TAPE SPEED
1.	3,150 Hz test tape (TF-110CT)
2.	TAPE-II, PLAY
3.	TP-R.OUT, VR304
4.	• Connect a frequency counter to the TP-R.OUT and press the "DUBBING" button again to resume normal tape speed. * 3,140 ± 10 Hz



5-2. CD PLAYER SECTION

TEST MODE FOR CD PLAYER'S OPERATION

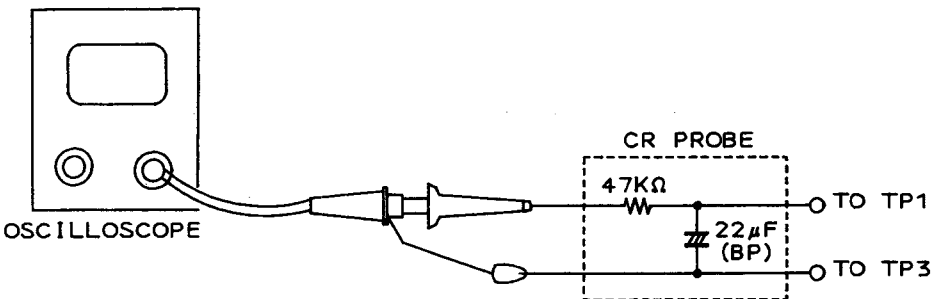
Some adjustments of the CD PLAYER section are automatically carried out by the micro computer. If the CD player section is defective and it is necessary to partially check the operation, the "CD TEST" mode can be used while repairing.

Engaging the "CD TEST" mode

While pressing and holding both the "■" and "CD1" buttons, plug in the AC power cord to the AC outlet.

NOTE :

- During "CD TEST" mode, only the DISC "1" ▲ open/close button can be used for loading. So, place a disc on "TRAY 1".
- Proceed testing by pressing the "CD1" button once for each testing step. The testing step will return to "TEST" if the "1" ▲ open/close button is pressed during steps "TEST-1" to "TEST-5". To repeat the check after the step number has reached "TEST-5", open the tray once and repeat the procedure by also pressing the "1" ▲ open/close button.
- To disengage the "CD TEST" mode, press the "POWER ON/STANDBY" button or disconnect the AC power cord from the AC outlet.
- Prepare a CR probe and connect an oscilloscope as shown below before adjustment of "E-F BALANCE".
- Never connect the AC millivoltmeter's or oscilloscope's GND to the ground line of the unit during adjustment as it may cause a "short circuit" of the VREF line to the ground.



DISPLAY	FUNCTION
TEST	Initial condition of the "CD TEST" mode.
TEST-1	Laser emission is ON.
TEST-2	Perform "focus search" then turn on the "focus servo".
TEST-3	Tracking servo is off and CLV servo is on. Perform "E-F balance" adjustment manually (setting data value of the "E-F balance" is displayed on the FLD).
TEST-4	Tracking gain adjustment is carried out automatically and its data value is displayed on the FLD.
TEST-5	Tracking servo is turned on and the normal playback mode is engaged.

1 E-F BALANCE

1. Test disc (SONY TYPE-III)

2. TEST-3 (test mode)

3. TP1 (TE), TP3 (VREF) & "◀▶" button

4. • Connect an oscilloscope to TP1 and TP3 on the CD PCB via CR probe.
* Press the "◀" or "▶" button so that the DC level of the waveform is less than ± 20 mV. Disconnect the CR probe then press the CD1 button to memorize the data (shown in the FLD) and proceed to "TEST-4".

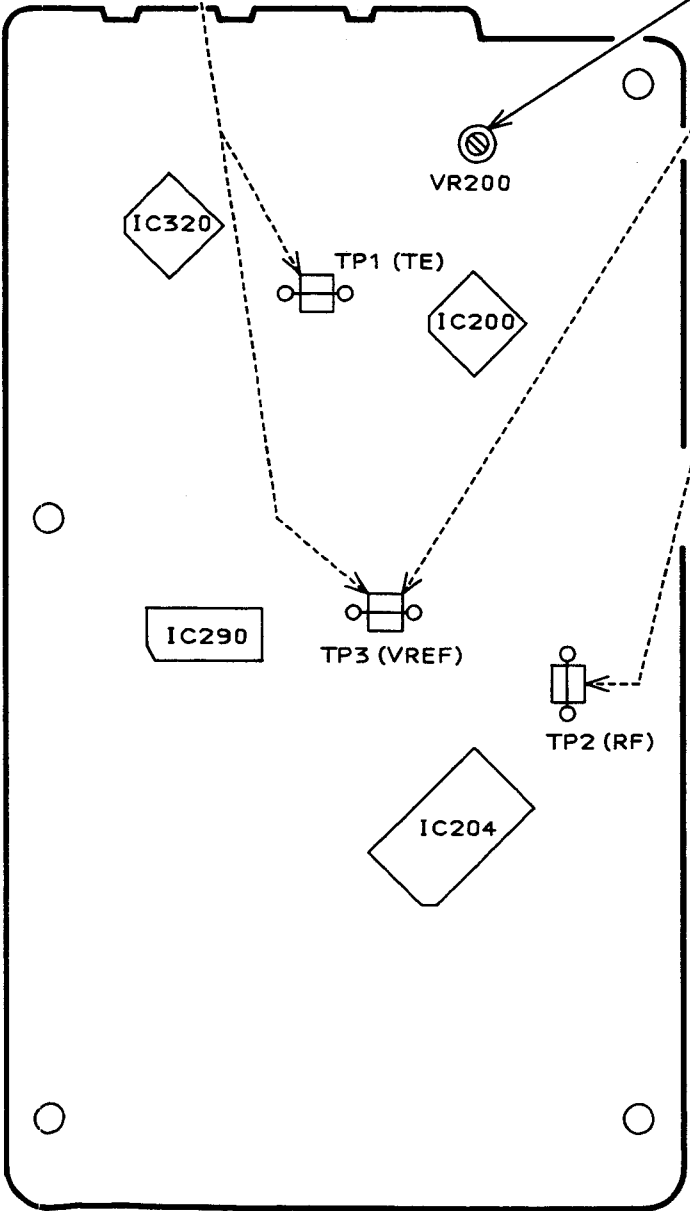
2 FOCUS OFFSET

1. Test disc (SONY TYPE-III)

2. TEST-5 (test mode)

3. TP2 (RF OUT), TP3 (VREF) & VR200

4. • Connect the hot side probe of an AC millivoltmeter or oscilloscope to TP2 on the CD PCB and GND side probe to the TP3 (VREF). (Never connect the AC millivoltmeter's or oscilloscope's GND to the ground line of the unit as it may cause a "short circuit" of the VREF line to the ground.)
* Adjust the VR200 on the CD PCB until the waveform on the oscilloscope is most focused and at its maximum level (or indication of the AC millivoltmeter is maximum).



CD PCB (PATTERN SIDE)

VI. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering.
If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List or Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

Ref. No.	Part. No.	Description
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20x03STL CMT
4	ZS-536488	BID20x08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in the figure.

b) PC Board

2. MAIN PC BOARD

Ref. No.	Part. No.	Description
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A]: AAL (U.S.A) [S]: SAA (Australia)
[B]: BEAB (England) [U]: U/T (Universal Area)
[C]: CSA (Canada)
[E]: CEE (Europe) [V]: VDE (Germany)
[J]: JPN (Japan) [Y]: Custom

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

6-1. MUSIC CENTER

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	BB-429731N	MECHA CMAL2Z047A(PB)
2	BB-429730N	MECHA CMAL2Z048A(R/P)
3	BB-429714N	MECHA TRAVERSE KSM-2101ADM
4	BH-734026J	HEAD BLK (PB) CMAL2Z047
5	BH-734027J	HEAD BLK (R/P) CMAL2Z048
6	BM-734028J	MOTOR BLK W/PULLEY CMAL2Z047
7	BM-733203M	MOTOR GEAR ASSY (MB) [SLED MOTOR]
8	BM-374198	MOTOR RF-370CA-15370 [TABLE MOTOR]
9	BM-408752M1	MOTOR RF-500TB-14415 [LOADING MOTOR]
10	BO-394728J3	PICKUP KSS-210A
11	△ BT-770379C	TRANS POW C1040 EV [AC-500(E,B)/503R]
12	△ BT-770380C	TRANS POW C1040 S [AC-500(S)]
13	△ BT-770381C	TRANS POW C1040 U [AC-505K]
14	△ BT-770382C	TRANS POW C1041 EV [AC-600(E,B)/603R]
15	△ BT-770383C	TRANS POW C1041 S [AC-600(S)]
16	△ BT-770384C	TRANS POW C1041 U [AC-605K]
17	△ EC-416655J	C DBL LAYER T05 FM0H473Z 5.5DC
18	ED-390012J	D LED GL4800 INFRARED
19	ED-429759J	D LED SEL6915A C,D ORANGE
20	ED-429758J	D LED SML1216W C,D GREEN/RED
21	ED-307572	D SILICON H 1SS131
22	△ ED-394708J	D SILICON RBA402 200/4.0A
23	△ ED-431031N	D SILICON RL152 F08 100/1.5A
24	△ ED-511907	D SILICON 1N4002 100/1.0A
25	ED-407083J	D ZENER H HZS12C1L
26	ED-422073J	D ZENER H HZS30-3L T26
27	ED-391003J	D ZENER H HZS4C3
28	△ ED-387919J	D ZENER H HZS6A1L
29	ED-400171J	D ZENER H HZS6C2L
30	ED-395862J	D ZENER H HZS7A1L
31	△ ED-425401J	D ZENER H HZS7A2L
32	ED-390651J	D ZENER H HZS7B2L
33	ED-387763J	D ZENER H HZS7B3L
34	△ ED-346528	D ZENER H HZ6C1L
35	EE-429724N	TUNER TFCB1S512AFM/MW/SW [Y7]
36	EE-429723N	TUNER TFCB1U512AFM/AM [S,U5,Y6,U8]
37	EE-429721N	TUNER TFCB3E512AFM/MW/LW [B,E]
38	△ EF-403289N	FUSE 218 TIME 250V 1.25A [AC-600/603R/605K]
39	△ EF-393708J	FUSE 218 TIME 250V 1.60A [AC-500/503R/505K]
40	△ EF-394703N	FUSE 218 TIME 250V 2.50A
41	EH-422066J	COMP R RGL8BT 473J
42	EH-429767J	COMP R RNMT-08-472J
43	EH-429765J	COMP R RNMT-12-472J [AC-600/603R/605K]
44	EH-429768J	COMP R RNRA-08-473J
45	EI-389264J	IC BA6209N [AC-600/603R/605K]
46	EI-419334J	IC BA6247
47	EI-770309C	IC BU4094BC
48	EI-770310C	IC BU4094BCF
49	EI-429718J	IC CXA1782BQ
50	EI-429719J	IC CXA1897Q
51	EI-429720J	IC CXD2508AQ

Ref. No.	Part No.	Description
52	EI-770366C	IC KA9258D
53	EI-349591	IC LA2730
54	EI-770316C	IC LC32464P-80 [AC-605K]
55	EI-416515J	IC LC7073M [AC-503R/603R]
56	EI-770315C	IC LC7872E [AC-605K]
57	EI-419341J	IC MN12510F
58	EI-430849J	IC M38173M6-354FP TX1DECK-A1 [AC-500/503R/505K]
59	EI-430845J	IC M38184M8-167FP TX1DECK-B1 [AC-600/603R/605K]
60	EI-430846J	IC M38184M8-168FP TX1TUCD-A1
61	EI-429746J	IC M65840SP [AC-505K]
62	EI-428178J	IC M65843P [AC-505K]
63	EI-428194J	IC NJM4558DD
64	EI-400756J	IC NJM4558L-B
65	EI-770299C	IC PST-9121 T05
66	EI-415159J	IC SAA6579T [AC-503R/603R]
67	EI-430892J	IC STK400-040
68	△ EI-394709J	IC STK4142-2
69	EI-405224J	IC ST24C02AB1/AAB
70	EI-332259	IC TC4052BP [AC-505K]
71	EI-200573	IC TC4053BP
72	EI-770346C	IC TC9299P
73	EI-427639J	OSC CE CSA2.00MG
74	EI-427640J	OSC CE CSB400P [AC-505K]
75	EI-430893J	OSC CE CST16.00MXW-TF01 T05 [AC-505K]
76	EI-396490J	OSC CE CST4.00MGW-TF01 T05
77	EI-405327J	OSC CE CST6.00MGW 6.000MHZ
78	EI-431323N	OSC X'TAL C-002RX 32.768KHZ
79	EI-770397C	OSC X'TAL HC-49/U 14.31818MHZ [AC-605K]
80	EI-770396C	OSC X'TAL HC-49/U 17.734475MHZ [AC-605K]
81	EI-770322C	OSC X'TAL HC-49/U 33868.8KHZ
82	EI-416694M	OSC X'TAL HC-49/U-S 4.33200MHZ [AC-503R/603R]
83	EJ-394490J	SOCKET OPTICAL GP1F32T
84	EM-429752N	IND FL 14-BT-40GK DOUBLE
85	EM-429753N	IND FL 3-MT-21GK DOUBLE
86	EM-429736N	IND FL 6-ST-35GK CHARACTER
87	EQ-770338C	RELAY POW DH2SU 12V
88	△ ER-200746	R FUSE H ERD2FC 1/4W 1000G
89	△ ER-325381	R FUSE H RF25SJ 1/4W 2R2J
90	ES-733205M	SW LEAF
91	ES-408754M	SW LEAF LSA-1119H
92	ES-408755M	SW LEAF LSA-2127E
93	ES-734037J	SW LEAF SPLF
94	ES-391710J	SW LEAF SPPB51 01-1 NO
95	ES-419356N	SW PUSH PS-135M2-A22S 2-02N [AC-500/503R/505K]
96	△ ES-418650J	SW SELECT ESE-37311 [AC-505K/605K]
97	ES-770388C	SW SLIDE SK22D02-G5 [AC-605K]
98	ES-362883	SW TACT SKHHLM
99	ES-394493J	SW TACT SOA-123HS
100	ES-770378C	SW TACT SOA-143HS [AC-600/603R/605K]
101	ET-770313C	DETECTOR PNA4602M
102	ET-734055J	DETECTOR SPI-335-44
103	ET-356336	TR DTA114ES
104	ET-363953	TR DTA114TS
105	ET-369248	TR DTA114YS
106	ET-405334J	TR DTA123JS T05
107	ET-354370	TR DTA124ES
108	ET-354415	TR DTA144ES
109	ET-353897	TR DTC114ES

Ref. No.	Part No.	Description
110	ET-360399	TR DTC114TS [AC-505K]
111	ET-354365	TR DTC114YS
112	ET-373485	TR DTC123JS
113	ET-375986	TR DTC124TS
114	ET-364060	TR DTC143ES [AC-503R/603R]
115	ET-354364	TR DTC143TS
116	ET-368786	TR DTC143ZS T05
117	ET-354414	TR DTC144ES
118	ET-354094	TR DTC144WS
119	ET-337759	TR FET 2SK246 GR [AC-503R/603R]
120	ET-770372C	TR FET 2SK372 GR,BL T05
121	ET-390010J	TR PHOTO PT4800
122	ET-353899	TR 2SA1317 S,T,U
123	ET-388338J	TR 2SB1425 S,E
124	ET-408841J	TR 2SB1565 E,F
125	ET-770339C	TR 2SB822 Q,R
126	ET-397160J	TR 2SC3330 R,S,T,U,V
127	ET-404320J	TR 2SC3331 T,U T05
128	ET-361736	TR 2SC3576
129	ET-397176J	TR 2SD1012-V F,G,H
130	ET-770401C	TR 2SD1055 Q,R [AC-600/603R/605K]
131	ET-366168	TR 2SD1292 Q,R
132	ET-408842J	TR 2SD2394 E,F
133	ET-416697J	TR 2SD2396 J,K
134	EV-429738N	VR SPL RK16812MG L20 SPE.104X2 [AC-500/503R/505K]
135	EV-429739N	VR SPL RK16814MG L20 SPE.104X4 [AC-600/603R/605K]
136	EW-770405C	CORD FFC AD P1.25 L=265 5P
137	EW-770355C	CORD FFC AD P1.25 L320 10P
138	MA-734059J	TURNTABLE CHASSISASSY KSM-2101ADM [SPINDLE MOTOR]
139	MB-734036J	BELT F/R
140	MB-770081C	BELT LOADING (CH)
141	MB-734035J	BELT MAIN
142	ZS-733963J	BID20X06STL CMT

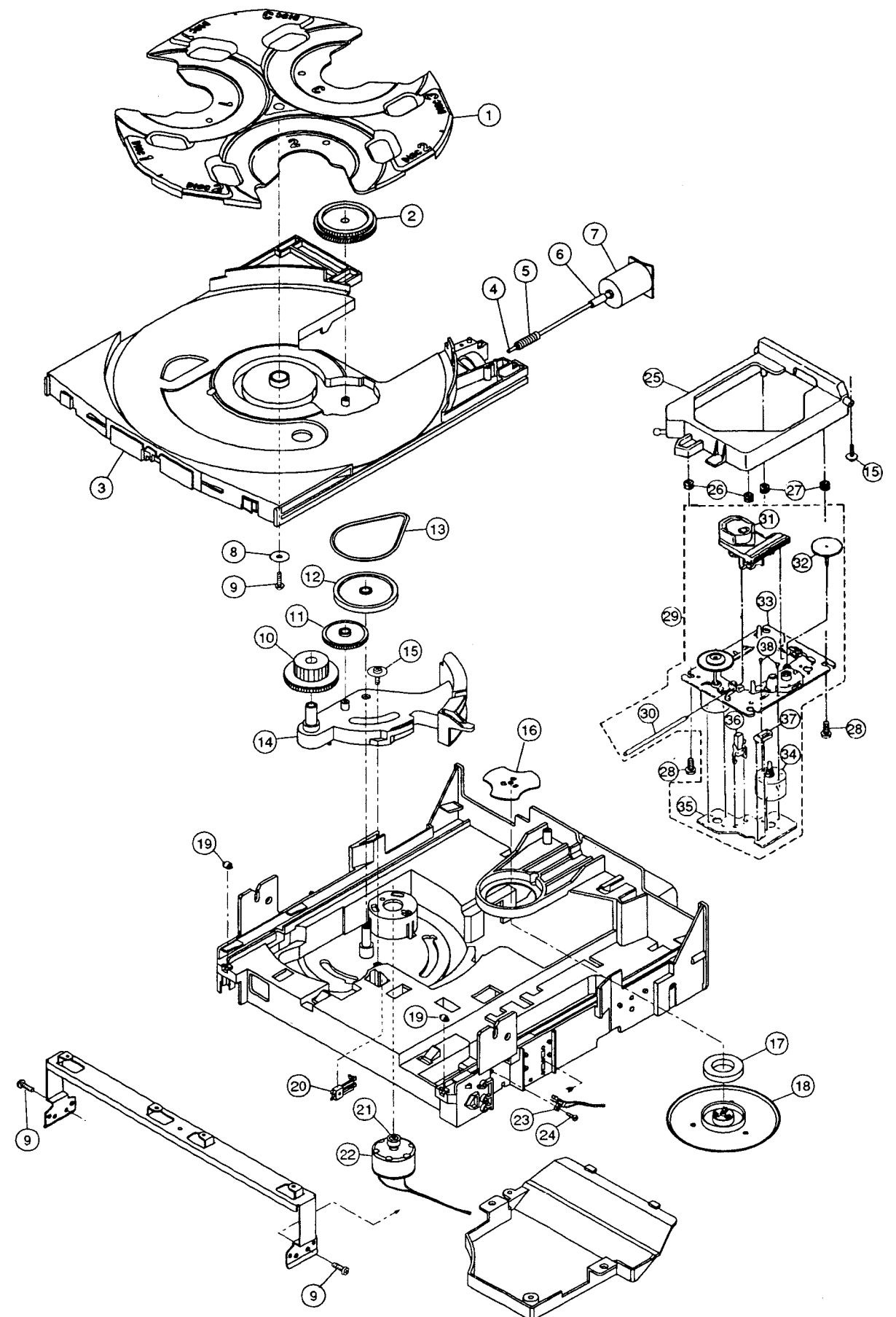
2. CD MECHANISM BLOCK

Ref. No.	Part No.	Description
1	MZ-770088C	HOLDER DISC (CH)
2	MZ-770087C	GEAR WORMWHEEL TABLE (CH)
3	SC-770084C	TRAY LOADING (CH)
4	MS-770086C	SHAFT (CH)
5	MZ-429134J	WORM
6	MZ-770085C	JOINT (CH)
7	BM-374198	MOTOR RF-370CA-15370 [TABLE MOTOR]
8	ZW-396336M	PW30X150X080STL CMT (SG)
9	ZS-394414J	BT BID30X08STL BZN
10	MZ-770080C	GEAR LOADING(A) (CH)
11	MZ-770075C	GEAR LOADING(B) (CH)
12	MR-770076C	PULLEY GEAR (CH)
13	MB-770081C	BELT LOADING (CH)
14	BL-770074C	HOLDER GEAR (CH)
15	ZS-407886J	BT PAN30X08STL BZN C100
16	MZ-770078C	PLATE CLAMPER (CH)
17	MZ-413089J	MAGNET FM30X17X5.2 4P
18	MZ-770077C	CLAMPER (CH)
19	MR-407755M	ROLLER (SG)
20	ES-408755M	SW LEAF LSA-2127E
21	MR-770079C	PULLEY (CH)
22	BM-408752M1	MOTOR RF-500TB-14415 [LOADING MOTOR]
23	ES-408754M	SW LEAF LSA-1119H
24	ZS-343082	PT BR26X08STL CMT
25	MZ-770082C	HOLDER TRAVERSE (CH)
26	MB-770359C	INSULATOR(G) (CH)
27	MB-770360C	INSULATOR(B) (CH)
28	ZS-770083C	SCREW GRADUATED (CH)
29	BB-429714N	MECHA TRAVERSE KSM-2101ADM
30	MS-733198M	SLIDE SHAFT
31	BO-394728J3	PICKUP KSS-210A
32	MZ-733201M	GEAR (A)
33	MA-734059J	TURNTABLE CHASSISASSY KSM-2101ADM [SPINDLE MOTOR]
34	BM-733203M	MOTOR GEARASSY (MB) [SLED MOTOR]
35	EA-733204M	MOTOR P.C BOARD (6P)
36	ES-733205M	SW LEAF
37	EJ-733206M	CONNECTOR 6P
38	ZS-477876	PAN20X03STL CMT

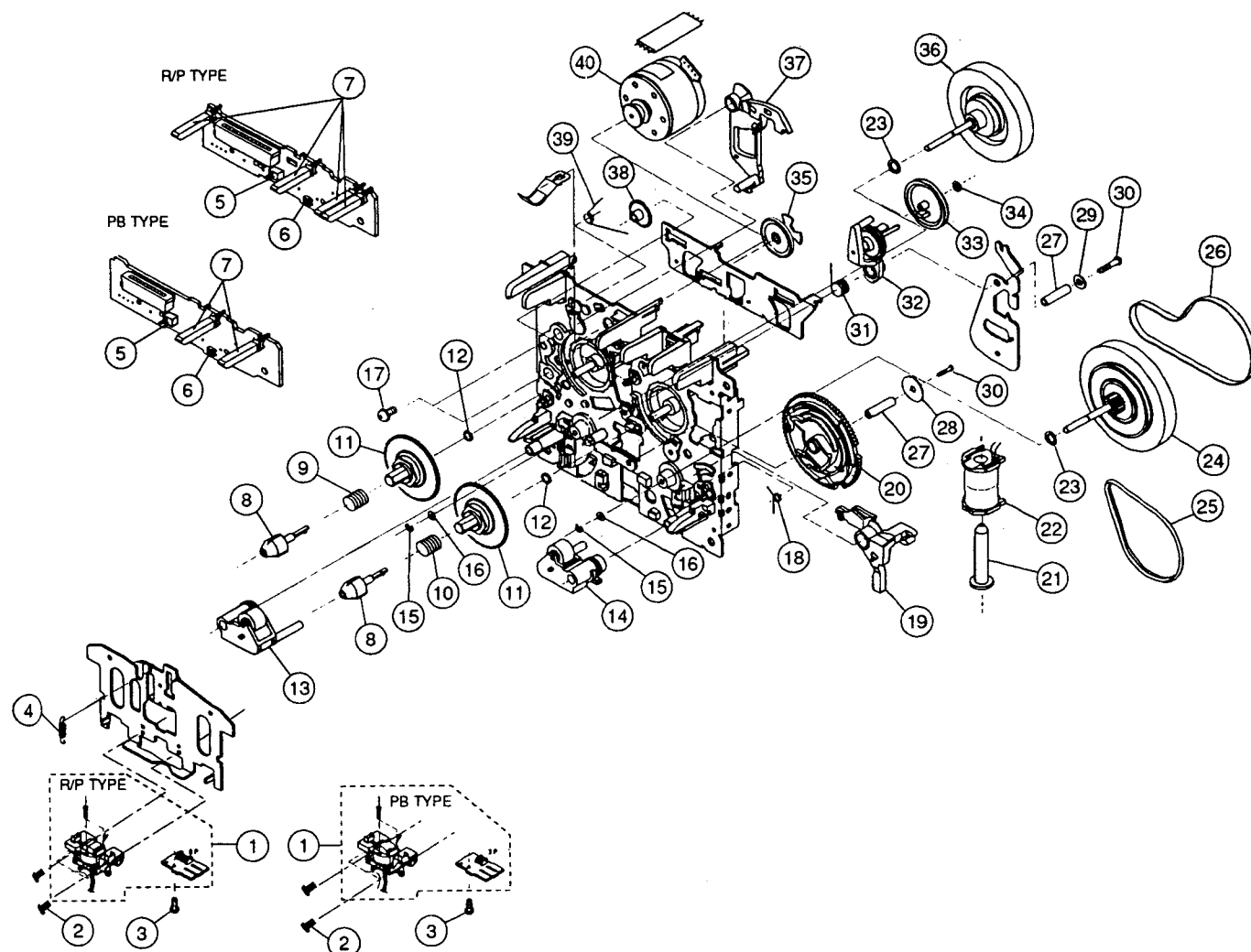
NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

CD MECHANISM BLOCK



DECK MECHANISM BLOCK (CMAL2Z047/048)



3. DECK MECHANISM BLOCK (CMAL2Z047/048)

Ref. No.	Part No.	Description
1-A	BH-734026J	HEAD BLK (PB) CMAL2Z047
1-B	BH-734027J	HEAD BLK (R/P) CMAL2Z048
2	ZS-733963J	BID20X06STL CMT
3	ZS-464703	BID20X04STL CMT
4	ZG-733421J	SP HB
5	ES-391710J	SW LEAF SPPB51 01-1 NO
6	ET-734055J	DETECTOR SPI-335-44
7	ES-734037J	SW LEAF SPLF
8	MT-734042J	REEL FEATHER
9	ZG-734043J	SP REEL (L)
10	ZG-734044J	SP REEL (R)
11	MR-734041J	REEL BASE
12	ZW-259738	PW41X070X025PSL
13	BL-734034J	PINCH ROLLER (L) BLK
14	BL-734033J	PINCH ROLLER (R) BLK
15	ZW-733441J	E-RING
16	ZW-733434J	WASHER 2.6X0.5
17	ZS-733439J	SCREW 2.6X5
18	ZG-734039J	SP ARM PLAY
19	ML-734038J	ARM PLAY
20	MZ-734054J	GEAR CAM MAIN
21	MZ-734053J	PLAUGER
22	EP-734052J	SOLENOID BLK
23	ZW-733433J	WASHER 2.6X0.25

Ref. No.	Part No.	Description
24	MI-734032J	FLYWHEEL CLUTCHASSY
25	MB-734036J	BELT F/R
26	MB-734035J	BELT MAIN
27	MZ-734049J	SPACER
28	ZW-734056J	PW20X090X030
29	ZW-354346	PW21X060X025PBR
30	ZS-343113	ST PAN20X12STL CMT
31	ZG-734040J	SP CAM
32	MZ-734031J	REEL CLUTCHASSY
33	MR-734047J	PULLEY F/R
34	ZW-717841	WASHER PSL
35	MZ-734048J	GEAR (A) FF
36	BF-734046J	FLYWHEELASSY
37	ML-734050J	LEVER BRAKE
38	MZ-734045J	GEAR PLAY (A)
39	ZG-734051J	SP BRAKE
40	BM-734028J	MOTOR BLK W/PULLEY CMAL2Z047

NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

4. P.C. BOARD BLOCK

Ref. No.	Part No.	Description
1-A	BA-C1040C060A	CH PC MAIN500 BLKAC-500(E)/CH [AC-500/503R]
1-B	BA-C1040C060B	CH PC MAIN500 BLKAC-505K(U5)/CH [AC-505K]
1-C	BA-C1041C060A	CH PC(##) MAIN600 BLKAC-600(E)/CH [AC-600/603R]
1-D	BA-C1041C060B	CH PC(##) MAIN600 BLKAC-605K(U5)/CH [AC-605K]
2-A	BA-C1040C070A	CH PC(##)CD-SYS BLKAC-500(E)/CH [E,B]
2-B	BA-C1040C070B	CH PC(##)CD-SYS BLKAC-500(S)/CH
2-C	BA-C1040C070C	CH PC(##)CD-SYS BLKAC-503R(E)/CH
2-D	BA-C1040C070D	CH PC(##)CD-SYS BLKAC-505K(U5)/CH [U5,Y6,U8]
2-E	BA-C1040C070E	CH PC(##)CD-SYS BLKAC-505K(Y7)/CH
2-F	BA-C1040C070F	CH PC(##)CD-SYS BLKAC-600(E)/CH [E,B]
2-G	BA-C1040C070G	CH PC(##)CD-SYS BLKAC-600(S)/CH
2-H	BA-C1040C070H	CH PC(##)CD-SYS BLKAC-603R(E)/CH
2-I	BA-C1040C070J	CH PC(##)CD-SYS BLKAC-605K(U5)/CH [U5,Y6,U8]
2-J	BA-C1040C070K	CH PC(##)CD-SYS BLKAC-605K(Y7)/CH
3-A	BA-C1040C080A	CH PC(##)TU-DK BLKAC-500(E)/CH [E,B]
3-B	BA-C1040C080B	CH PC(##)TU-DK BLKAC-500(S)/CH
3-C	BA-C1040C080C	CH PC(##)TU-DK BLKAC-503R(E)/CH
3-D	BA-C1040C080D	CH PC(##)TU-DK BLKAC-505K(U5)/CH [U5,Y6,U8]
3-E	BA-C1040C080E	CH PC(##)TU-DK BLKAC-505K(Y7)/CH
3-F	BA-C1040C080F	CH PC(##)TU-DK BLKAC-600(E)/CH [E,B]
3-G	BA-C1040C080G	CH PC(##)TU-DK BLKAC-600(S)/CH
3-H	BA-C1040C080H	CH PC(##)TU-DK BLKAC-603R(E)/CH
3-I	BA-C1040C080J	CH PC(##)TU-DK BLKAC-605K(U5)/CH [U5,Y6,U8]
3-J	BA-C1040C080K	CH PC(##)TU-DK BLKAC-605K(Y7)/CH

PC (##) MAIN 600 BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- MAIN P.C. BOARD
- SURROUND-FLD P.C. BOARD

PC (##) CD-SYS BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- SYSTEM-FLD P.C. BOARD
- OPERATION P.C. BOARD
- CD P.C. BOARD
- MAIN VR P.C. BOARD
- DETECT P.C. BOARD
- VR LED P.C. BOARD
- JUNCTION P.C. BOARD

PC (##) TU-DK BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- TUNER/DECK P.C. BOARD
- CD FLD P.C. BOARD
- BIAS OSC P.C. BOARD

5. MAIN P.C. BOARD (AC-500/503R/505K)

Ref. No.	Part No.	Description
C1	EC-394535J	C EC V CUT SME 332M 45.0DC
C2	EC-394535J	C EC V CUT SME 332M 45.0DC
C3	EC-322420	C EC V CUT AS1 332M 25.0DC
C5	EC-367048	C EC V CUT SME 101M 63.0DC
D1	△ ED-394708J	D SILICON RBA402 200/4.0A
D2	△ ED-431031N	D SILICON RL152 F08 100/1.5A
D3	△ ED-431031N	D SILICON RL152 F08 100/1.5A
D4	△ ED-431031N	D SILICON RL152 F08 100/1.5A
D5	△ ED-431031N	D SILICON RL152 F08 100/1.5A
D6	△ ED-511907	D SILICON 1N4002 100/1.0A
D7	△ ED-511907	D SILICON 1N4002 100/1.0A
D8	△ ED-511907	D SILICON 1N4002 100/1.0A
D9	△ ED-387919J	D ZENER H HZS6A1L
D101	ED-387763J	D ZENER H HZS7B3L
D102	ED-307572	D SILICON H 1SS131
D103	ED-307572	D SILICON H 1SS131
D104	ED-387763J	D ZENER H HZS7B3L
D105	ED-511907	D SILICON 1N4002 100/1.0A
D106	ED-511907	D SILICON 1N4002 100/1.0A
D111	ED-395862J	D ZENER H HZS7A1L
D112	ED-407083J	D ZENER H HZS12C1L
D113	ED-400171J	D ZENER H HZS6C2L
D114	ED-307572	D SILICON H 1SS131
D115	ED-307572	D SILICON H 1SS131
D116	ED-307572	D SILICON H 1SS131
D117	ED-307572	D SILICON H 1SS131
D118	ED-307572	D SILICON H 1SS131
D119	ED-407083J	D ZENER H HZS12C1L
D121	ED-307572	D SILICON H 1SS131
D122	ED-422073J	D ZENER H HZS30-3L T26
D123	ED-307572	D SILICON H 1SS131
D131	ED-390651J	D ZENER H HZS7B2L
D132	ED-390651J	D ZENER H HZS7B2L
D133	ED-400171J	D ZENER H HZS6C2L
D281	ED-307572	D SILICON H 1SS131
D282	ED-307572	D SILICON H 1SS131
D283	ED-307572	D SILICON H 1SS131
D284	ED-307572	D SILICON H 1SS131
D285	ED-307572	D SILICON H 1SS131
D286	ED-307572	D SILICON H 1SS131
D287	ED-307572	D SILICON H 1SS131
D288	ED-307572	D SILICON H 1SS131
D301	ED-400171J	D ZENER H HZS6C2L
D302	ED-400171J	D ZENER H HZS6C2L
D303	ED-307572	D SILICON H 1SS131
D304	ED-307572	D SILICON H 1SS131
D305	ED-307572	D SILICON H 1SS131
D601	ED-307572	D SILICON H 1SS131 [AC-505K]
D602	ED-307572	D SILICON H 1SS131 [AC-505K]
D603	ED-307572	D SILICON H 1SS131 [AC-505K]
F3	△ EF-394703N	FUSE 218 TIME 250V 2.50A
FR1	△ ER-200746	R FUSE H ERD2FC 1/4W 1000G
FR2	△ ER-200746	R FUSE H ERD2FC 1/4W 1000G
IC1	△ EI-394709J	IC STK4142-2
IC503	EI-200573	IC TC4053BP
IC504	EI-200573	IC TC4053BP [AC-505K]
IC505	EI-400756J	IC NJM4558L-B
IC506	EI-400756J	IC NJM4558L-B
IC602	EI-332259	IC TC4052BP [AC-505K]
IC603	EI-200573	IC TC4053BP [AC-505K]
IC604	EI-429746J	IC M65840SP [AC-505K]
IC605	EI-400756J	IC NJM4558L-B [AC-505K]
IC606	EI-428178J	IC M65843P [AC-505K]
J5	EJ-770347C	SOCKET TKC-V16X-A1 16P
J201	EJ-359671	PHONE J 1P YKB21-5101 3.5
L201	EO-403613J	COIL FIX 2 202AK-018A 2R2K

Ref. No.	Part No.	Description
L202	EO-403613J	COIL FIX 2 202AK-018A 2R2K
L204	EO-342936	COIL BALUM [AC-500/503R]
L205	EO-342936	COIL BALUM [AC-500/503R]
RL1	EQ-770338C	RELAY POW DH2SU 12V
R3	△ ER-770348C	R OMF H S10FLR ERX12SP1/2W220J
R101	△ ER-770390C	R OMF H S10FLR ERX12SP1/2W3R9J
R111	ER-770391C	R OMF H S10FLR ERX12SP1/2WR33J
R151	ER-770332C	R OMF H S10FLR ERX12SP1/2W1R0J
R152	ER-770329C	R OMF H S10FLR ERX12SP1/2WR47J
R153	ER-770329C	R OMF H S10FLR ERX12SP1/2WR47J
R207	ER-362495	R OMF H S10 FS 1/2W 101J
R208	ER-387923J	R OMF H S12 FS 1W 222J
R209	ER-387923J	R OMF H S12 FS 1W 222J
R210	ER-362495	R OMF H S10 FS 1/2W 101J
R211	ER-336772	R OMF H S15 FS 1W 270J
R212	ER-770335C	R OMF H S12 FLR ERX1SP 1W 3R3J
R261	ER-336772	R OMF H S15 FS 1W 270J
R262	ER-770335C	R OMF H S12 FLR ERX1SP 1W 3R3J
R295	ER-397194J	R OMF V T05FS ERG1SE 1W 331J
R296	ER-397194J	R OMF V T05FS ERG1SE 1W 331J
R311	△ ER-770375C	R CT P F09 PLATE 2W R10K
R312	△ ER-770375C	R CT P F09 PLATE 2W R10K
R690	ER-333023	R OMF H S20 FS 2W 100J [AC-505K]
TM201	EJ-408698J	TERMINAL PUSH LQR0810-0006 8P
TR101	ET-353899	TR 2SA1317 S,T,U
TR102	ET-353897	TR DTC114ES
TR103	ET-397160J	TR 2SC3330 R,S,T,U,V
TR104	ET-416697J	TR 2SD2396 J,K
TR105	ET-770339C	TR 2SB822 Q,R
TR106	ET-354365	TR DTC114YS
TR111	ET-353899	TR 2SA1317 S,T,U
TR112	ET-397160J	TR 2SC3330 R,S,T,U,V
TR114	ET-408841J	TR 2SB1565 E,F
TR115	ET-397160J	TR 2SC3330 R,S,T,U,V
TR116	ET-368786	TR DTC143ZS T05
TR118	ET-363953	TR DTA114TS
TR119	ET-363953	TR DTA114TS
TR120	ET-363953	TR DTA114TS
TR121	ET-397160J	TR 2SC3330 R,S,T,U,V
TR122	ET-356336	TR DTA114ES
TR123	ET-408841J	TR 2SB1565 E,F
TR124	ET-353899	TR 2SA1317 S,T,U
TR201	ET-397176J	TR 2SD1012-V F,G,H
TR202	ET-397176J	TR 2SD1012-V F,G,H
TR203	ET-369248	TR DTA114YS
TR281	ET-354414	TR DTC144ES
TR282	ET-354414	TR DTC144ES
TR283	ET-354414	TR DTC144ES
TR284	ET-353899	TR 2SA1317 S,T,U
TR285	ET-354414	TR DTC144ES
TR301	ET-353897	TR DTC114ES
TR302	ET-353897	TR DTC114ES
TR303	ET-397160J	TR 2SC3330 R,S,T,U,V
TR304	ET-397160J	TR 2SC3330 R,S,T,U,V
TR305	ET-356336	TR DTA114ES
TR306	ET-356336	TR DTA114ES
TR307	ET-397160J	TR 2SC3330 R,S,T,U,V
TR308	ET-397160J	TR 2SC3330 R,S,T,U,V
TR603	ET-360399	TR DTC114TS [AC-505K]
TR604	ET-360399	TR DTC114TS [AC-505K]
TR605	ET-360399	TR DTC114TS [AC-505K]
X601	EI-430893J	OSC CE CST16.00MXW-TF01 T05 [AC-505K]
X603	EI-427640J	OSC CE CSB400P [AC-505K]

6. MAIN P.C. BOARD (AC-600/603R/605K)

Ref. No.	Part No.	Description
C1	EC-383075J	C EC V CUT SME 332M 35.0DC
C2	EC-383075J	C EC V CUT SME 332M 35.0DC
C3	EC-322420	C EC V CUT AS1 332M 25.0DC
C5	EC-363489	C EC V CUT SME 221M 63.0DC
D1	△ ED-394708J	D SILICON RBA402 200/4.0A
D2	△ ED-431031N	D SILICON RL152 F08 100/1.5A
D3	△ ED-431031N	D SILICON RL152 F08 100/1.5A
D4	△ ED-431031N	D SILICON RL152 F08 100/1.5A
D5	△ ED-431031N	D SILICON RL152 F08 100/1.5A
D6	△ ED-511907	D SILICON 1N4002 100/1.0A
D7	△ ED-511907	D SILICON 1N4002 100/1.0A
D8	△ ED-511907	D SILICON 1N4002 100/1.0A
D9	△ ED-387919J	D ZENER H HZS6A1L
D10	ED-307572	D SILICON H 1SS131
D11	ED-307572	D SILICON H 1SS131
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	ED-307572	D SILICON H 1SS131
D101	△ ED-390651J	D ZENER H HZS7B2L
D102	ED-307572	D SILICON H 1SS131
D104	△ ED-425401J	D ZENER H HZS7A2L
D105	ED-511907	D SILICON 1N4002 100/1.0A
D111	△ ED-425401J	D ZENER H HZS7A2L
D112	△ ED-346528	D ZENER H HZ6C1L
D113	ED-307572	D SILICON H 1SS131
D114	ED-307572	D SILICON H 1SS131
D115	ED-307572	D SILICON H 1SS131
D116	ED-407083J	D ZENER H HZS12C1L
D121	ED-307572	D SILICON H 1SS131
D122	△ ED-422073J	D ZENER H HZS30-3L T26
D131	△ ED-390651J	D ZENER H HZS7B2L
D132	△ ED-390651J	D ZENER H HZS7B2L
D133	△ ED-346528	D ZENER H HZ6C1L
D301	ED-387919J	D ZENER H HZS6A1L
D302	ED-387919J	D ZENER H HZS6A1L
D303	ED-307572	D SILICON H 1SS131
D304	ED-307572	D SILICON H 1SS131
D305	ED-307572	D SILICON H 1SS131
D441	ED-307572	D SILICON H 1SS131
D601	ED-307572	D SILICON H 1SS131 [AC-605K]
D602	ED-307572	D SILICON H 1SS131 [AC-605K]
D603	ED-307572	D SILICON H 1SS131 [AC-605K]
D604	ED-307572	D SILICON H 1SS131
F3	△ EF-394703N	FUSE 218 TIME 250V 2.50A
FR1	△ ER-200746	R FUSE H ERD2FC 1/4W 1000G
FR2	△ ER-200746	R FUSE H ERD2FC 1/4W 1000G
IC201	EI-430892J	IC STK400-040
IC401	EI-400756J	IC NJM4558L-B
IC402	EI-349591	IC LA2730
IC403	EI-770346C	IC TC9299P
IC503	EI-200573	IC TC4053BP
IC504	EI-200573	IC TC4053BP
IC505	EI-400756J	IC NJM4558L-B
IC506	EI-400756J	IC NJM4558L-B
IC602	EI-332259	IC TC4052BP [AC-605K]
IC603	EI-200573	IC TC4053BP [AC-605K]
IC604	EI-429746J	IC M65840SP [AC-605K]
IC605	EI-400756J	IC NJM4558L-B
IC606	EI-428178J	IC M65843P
J5	EJ-770347C	SOCKET TKC-V16X-A1 16P
J201	EJ-429744J	PHONE J 3P HSJ3000-01-010 3.5
L201	EO-403613J	COIL FIX 2 202AK-018A 2R2K
L202	EO-403613J	COIL FIX 2 202AK-018A 2R2K
L203	EO-403613J	COIL FIX 2 202AK-018A 2R2K
L204	EO-342936	COIL BALUM [AC-600/603R]
L205	EO-342936	COIL BALUM [AC-600/603R]
RL1	EQ-770338C	RELAY POW DH2SU 12V

Ref. No.	Part No.	Description
R3	△ ER-770389C	R OMF H S10FLR ERX12SP1/2W150J
R101	△ ER-770373C	R OMF H S10FLR ERX12SP1/2W1R8J
R111	ER-405439J	R OMF H S15 FS 1W R33J
R207	ER-341940	R OMF H S15 FS 1W 100J
R208	ER-341940	R OMF H S15 FS 1W 100J
R257	ER-341940	R OMF H S15 FS 1W 100J
R258	ER-341940	R OMF H S15 FS 1W 100J
R277	ER-341940	R OMF H S15 FS 1W 100J
R278	ER-341940	R OMF H S15 FS 1W 100J
R281	ER-422301J	R OMF V T05FS ERG12SE1/2W 100J
R282	△ ER-422301J	R OMF V T05FS ERG12SE1/2W 100J
R311	△ ER-770375C	R CT P F09 PLATE 2W R10K
R312	△ ER-770375C	R CT P F09 PLATE 2W R10K
R313	△ ER-770400C	R CT P F09 PLATE 2W R18K
R690	ER-333023	R OMF H S20 FS 2W 100J
TM201	EJ-408698J	TERMINAL PUSH LQR0810-0006 8P
TR1	ET-354414	TR DTC144ES
TR101	ET-353899	TR 2SA1317 S,T,U
TR102	ET-360399	TR DTC114TS
TR103	ET-397160J	TR 2SC3330 R,S,T,U,V
TR104	ET-408842J	TR 2SD2394 E,F
TR105	ET-770339C	TR 2SB822 Q,R
TR106	ET-354365	TR DTC114YS
TR111	ET-353899	TR 2SA1317 S,T,U
TR112	ET-397160J	TR 2SC3330 R,S,T,U,V
TR113	ET-360399	TR DTC114TS
TR114	ET-373485	TR DTC123JS
TR115	ET-397160J	TR 2SC3330 R,S,T,U,V
TR116	△ ET-408841J	TR 2SB1565 E,F
TR123	ET-408841J	TR 2SB1565 E,F
TR124	ET-353899	TR 2SA1317 S,T,U
TR201	ET-397176J	TR 2SD1012-V F,G,H
TR202	ET-369248	TR DTA114YS
TR251	ET-397176J	TR 2SD1012-V F,G,H
TR271	ET-397176J	TR 2SD1012-V F,G,H
TR272	ET-354415	TR DTA144ES
TR281	ET-397160J	TR 2SC3330 R,S,T,U,V
TR282	ET-353899	TR 2SA1317 S,T,U
TR283	ET-397160J	TR 2SC3330 R,S,T,U,V
TR284	ET-354415	TR DTA144ES
TR285	ET-354414	TR DTC144ES
TR286	ET-354415	TR DTA144ES
TR301	ET-354365	TR DTC114YS
TR302	ET-354365	TR DTC114YS
TR303	ET-397160J	TR 2SC3330 R,S,T,U,V
TR304	ET-397160J	TR 2SC3330 R,S,T,U,V
TR305	ET-354415	TR DTA144ES
TR314	ET-397160J	TR 2SC3330 R,S,T,U,V
TR315	ET-397160J	TR 2SC3330 R,S,T,U,V
TR316	ET-397160J	TR 2SC3330 R,S,T,U,V
TR441	ET-353899	TR 2SA1317 S,T,U
TR442	ET-360399	TR DTC114TS
TR603	ET-360399	TR DTC114TS [AC-605K]
TR604	ET-360399	TR DTC114TS [AC-605K]
TR605	ET-360399	TR DTC114TS [AC-605K]
TR606	ET-360399	TR DTC114TS [AC-605K]
TR607	ET-360399	TR DTC114TS [AC-605K]
TR608	ET-360399	TR DTC114TS [AC-605K]
TR609	ET-360399	TR DTC114TS [AC-605K]
TR610	ET-360399	TR DTC114TS [AC-605K]
TR611	ET-360399	TR DTC114TS [AC-605K]
TR612	ET-360399	TR DTC114TS [AC-605K]
X601	EI-430893J	OSC CE CST16.00MXW-TF01 T05 [AC-605K]
X602	EI-427639J	OSC CE CSA2.00MG
X603	EI-427640J	OSC CE CSB400P [AC-605K]

7. SURROUND-FLD P.C. BOARD (AC-600/603R/605K)

Ref. No.	Part No.	Description
IB801	EH-429768J	COMP R RNRA-08-473J
IC801	EI-419341J	IC MN12510F
IN801	EM-429753N	IND FL 3-MT-21GK DOUBLE
J801	EJ-429877N	SOCKET 00 6216 010 100 10P
X801	EI-396490J	OSC CE CST4.00MGW-TF01 T05

8. SYSTEM-FLD P.C. BOARD

Ref. No.	Part No.	Description
C6	△ EC-416655J	C DBL.LAYER T05 FM0H473Z 5.5DC
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
D5	ED-307572	D SILICON H 1SS131
FR1	△ ER-325381	R FUSE H RF25SJ 1/4W 2R2J
IB1	EH-422066J	COMP R RGL8BT 473J
IB2	EH-429767J	COMP R RNMT-08-472J
IC1	EI-430846J	IC M38184M8-168FP TX1TUCD-A1
IC2	EI-770299C	IC PST-9121 T05
IC3	EI-405224J	IC ST24C02AB1/AAB
IC4	EI-415159J	IC SAA6579T [AC-503R/603R]
IC5	EI-416515J	IC LC7073M [AC-503R/603R]
IN1	EM-429752N	IND FL 14-BT-40GK DOUBLE
J10	EJ-429877N	SOCKET 00 6216 010 100 10P [AC-600/603R/605K]
P1	EJ-770300C	PLUG TKC-A14P-C1 14P
P2	EJ-770300C	PLUG TKC-A14P-C1 14P
P3	EJ-770301C	PLUG TKC-A05P-C1 5P [AC-600/603R/605K]
P5	EJ-770302C	PLUG TKC-V16P-A1 16P
P6	EJ-770303C	PLUG TKC-V24P-A1 24P
TR1	ET-369248	TR DTA114YS
TR2	ET-361736	TR 2SC3576
TR3	ET-361736	TR 2SC3576
TR4	ET-354414	TR DTC144ES
TR5	ET-354414	TR DTC144ES
TR6	ET-354414	TR DTC144ES
TR7	ET-354414	TR DTC144ES
TR8	ET-397160J	TR 2SC3330 R,S,T,U,V
TR9	ET-397160J	TR 2SC3330 R,S,T,U,V
TR10	ET-353899	TR 2SA1317 S,T,U
TR11	ET-353899	TR 2SA1317 S,T,U
TR12	ET-353899	TR 2SA1317 S,T,U [AC-503R/603R]
TR13	ET-364060	TR DTC143ES [AC-503R/603R]
TR14	ET-388338J	TR 2SB1425 S,E
TR15	ET-364060	TR DTC143ES
X1	EI-431323N	OSC X'TAL C-002RX 32.768KHZ
X2	EI-405327J	OSC CE CST6.00MGW 6.000MHZ
X3	EI-416694M	OSC X'TAL HC-49/U-S 4.33200MHZ [AC-503R/603R]
X4	EI-396490J	OSC CE CST4.00MGW-TF01 T05 [AC-503R/603R]

9. OPERATION P.C. BOARD

Ref. No.	Part No.	Description
D100	ED-429759J	D LED SEL6915A C,D ORANGE
D101	ED-429759J	D LED SEL6915A C,D ORANGE
D102	ED-429759J	D LED SEL6915A C,D ORANGE
D103	ED-429759J	D LED SEL6915A C,D ORANGE
D104	ED-429759J	D LED SEL6915A C,D ORANGE
D105	ED-429759J	D LED SEL6915A C,D ORANGE
D106	ED-429759J	D LED SEL6915A C,D ORANGE
D107	ED-429759J	D LED SEL6915A C,D ORANGE
D108	ED-429759J	D LED SEL6915A C,D ORANGE
D109	ED-429759J	D LED SEL6915A C,D ORANGE
D110	ED-429759J	D LED SEL6915A C,D ORANGE
D111	ED-429758J	D LED SML1216W C,D GREEN/RED
D112	ED-429758J	D LED SML1216W C,D GREEN/RED
D113	ED-429758J	D LED SML1216W C,D GREEN/RED
D114	ED-429758J	D LED SML1216W C,D GREEN/RED
D115	ED-429758J	D LED SML1216W C,D GREEN/RED
D116	ED-429758J	D LED SML1216W C,D GREEN/RED
D117	ED-429758J	D LED SML1216W C,D GREEN/RED
D118	ED-429759J	D LED SEL6915A C,D ORANGE
D119	ED-346528	D ZENER H HZ6C1L
IC100	EI-428194J	IC NJM4558DD
IC101	EI-770309C	IC BU4094BC
IC102	EI-770309C	IC BU4094BC
IC103	EI-770310C	IC BU4094BCF
J1	EJ-770311C	SOCKET TKC-A14X-A1 14P
J2	EJ-770311C	SOCKET TKC-A14X-A1 14P
J3	EJ-770312C	SOCKET TKC-A05X-A1 5P
J100	EJ-410383J	PHONE J 2P HSJ1406-01-010 3.5
J101	EJ-410383J	PHONE J 2P HSJ1406-01-010 3.5
PH100	ET-770313C	DETECTOR PNA4602M
SW100	ES-419356N	SW PUSH PS-135M2-A22S 2-02N
TR100	ET-353899	TR 2SA1317 S,T,U
TR101	ET-353899	TR 2SA1317 S,T,U
TS100	ES-394493J	SW TACT SOA-123HS
TS101	ES-394493J	SW TACT SOA-123HS
TS102	ES-394493J	SW TACT SOA-123HS
TS103	ES-394493J	SW TACT SOA-123HS
TS104	ES-394493J	SW TACT SOA-123HS
TS105	ES-394493J	SW TACT SOA-123HS
TS106	ES-394493J	SW TACT SOA-123HS
TS107	ES-394493J	SW TACT SOA-123HS
TS108	ES-394493J	SW TACT SOA-123HS
TS109	ES-394493J	SW TACT SOA-123HS
TS110	ES-394493J	SW TACT SOA-123HS
TS111	ES-394493J	SW TACT SOA-123HS
TS112	ES-394493J	SW TACT SOA-123HS
TS113	ES-394493J	SW TACT SOA-123HS
TS114	ES-394493J	SW TACT SOA-123HS
TS115	ES-394493J	SW TACT SOA-123HS
TS116	ES-394493J	SW TACT SOA-123HS
TS117	ES-394493J	SW TACT SOA-123HS
TS118	ES-770378C	SW TACT SOA-143HS
TS119	ES-394493J	SW TACT SOA-123HS
TS120	ES-394493J	SW TACT SOA-123HS
TS121	ES-770378C	SW TACT SOA-143HS
TS122	ES-394493J	SW TACT SOA-123HS
TS123	ES-394493J	SW TACT SOA-123HS
VR100	EV-429878N	VR ROTARY RK11K1140 L17.5A503
VR101	EV-408707J	VR ROTARY RK11K1140 SP W104
VR102	EV-429717N	VR SLIDE RS15111D C.T.B103

10. CD P.C. BOARD

Ref. No.	Part No.	Description
D260	ED-307572	D SILICON H 1SS131
D290	ED-511907	D SILICON 1N4002 100/1.0A
D291	ED-511907	D SILICON 1N4002 100/1.0A
D292	ED-511907	D SILICON 1N4002 100/1.0A
D293	ED-511907	D SILICON 1N4002 100/1.0A
D294	ED-511907	D SILICON 1N4002 100/1.0A
D310	ED-387919J	D ZENER H HZS6A1L
D311	ED-307572	D SILICON H 1SS131
D312	ED-307572	D SILICON H 1SS131
D313	ED-307572	D SILICON H 1SS131
FL320	EH-382267J	FILTER EMI FBA04HA600VS-00
IC200	EI-429718J	IC CXA1782BQ
IC240	EI-429720J	IC CXD2508AQ
IC260	EI-428194J	IC NJM4558DD
IC290	EI-770366C	IC KA9258D
IC310	EI-419334J	IC BA6247
IC320	EI-770315C	IC LC7872E
IC321	EI-770316C	IC LC32464P-80
J240	EJ-394490J	SOCKET OPTICAL GP1F32T
J320	EJ-770407C	PIN J HSP-241V1Y
L240	EO-368617	COIL FIX 1 LAP02 F05 1R5K
R313	ER-382474J	R OMF H S10 FS 1/2W 1R2J
SW320	ES-770388C	SW SLIDE SK22D02-G5
TR200	ET-353899	TR 2SA1317 S,T,U
TR201	ET-353899	TR 2SA1317 S,T,U
TR202	ET-375986	TR DTC124TS
TR260	ET-354415	TR DTA144ES
TR261	ET-360399	TR DTC114TS
TR262	ET-360399	TR DTC114TS
TR290	ET-388338J	TR 2SB1425 S,E
TR291	ET-368786	TR DTC143ZS T05
TR292	ET-388338J	TR 2SB1425 S,E
TR311	ET-397160J	TR 2SC3330 R,S,T,U,V
TR312	ET-375986	TR DTC124TS
TR320	ET-353899	TR 2SA1317 S,T,U
TR321	ET-397160J	TR 2SC3330 R,S,T,U,V
VR200	EV-368024	R S-FIX H V6EK-PV3(1S)0.1W 103
X240	EI-770322C	OSC X'TAL HC-49/U 33868.8KHZ
X320	EI-770396C	OSC X'TAL HC-49/U 17.734475MHZ
X321	EI-770397C	OSC X'TAL HC-49/U 14.31818MHZ

11. MAIN VR P.C. BOARD

Ref. No.	Part No.	Description
D400	ED-346528	D ZENER H HZ6C1L
IC400	EI-400756J	IC NJM4558L-B
IC401	EI-400756J	IC NJM4558L-B
TR400	ET-397160J	TR 2SC3330 R,S,T,U,V
TR401	ET-360399	TR DTC114TS
TR402	ET-360399	TR DTC114TS
VR400	EV-429738N	VR SPL RK16812MG L20 SPE.104X2
VR401	EV-429739N	VR SPL RK16814MG L20 SPE.104X4

12. DETECT P.C. BOARD

Ref. No.	Part No.	Description
D500	ED-390012J	D LED GL4800 INFRARED
P500	EJ-431103N	SOCKET 00 6216 005 100 5P
TR500	ET-390010J	TR PHOTO PT4800
1	SZ-770054C	HOLDER SENSER (CH)

13. VR LED P.C. BOARD

Ref. No.	Part No.	Description
D700	ED-429759J	D LED SEL691 5A C,D ORANGE

14. JUNCTION P.C. BOARD

Ref. No.	Part No.	Description
P800	EJ-431104N	SOCKET 00 6216 005 000 5P
1	EW-770405C	CORD FFC AD P1.25 L=265 5P

15. TUNER/DECK P.C. BOARD

Ref. No.	Part No.	Description
C851	△ EC-422101J	C MMY V CUT MKTR40 104M 275AC
D1	ED-307572	D SILICON H 1SS131
D2	ED-391003J	D ZENER H HZS4C3
D3	ED-307572	D SILICON H 1SS131
D301	ED-307572	D SILICON H 1SS131
D302	ED-307572	D SILICON H 1SS131
D351	ED-395862J	D ZENER H HZS7A1L [AC-600/603R/605K]
D352	ED-307572	D SILICON H 1SS131 [AC-600/603R/605K]
D353	ED-307572	D SILICON H 1SS131 [AC-600/603R/605K]
D401	ED-307572	D SILICON H 1SS131
D402	ED-307572	D SILICON H 1SS131 [AC-600/603R/605K]
D501	ED-390651J	D ZENER H HZS7B2L
D502	ED-400171J	D ZENER H HZS6C2L
D801	ED-400171J	D ZENER H HZS6C2L
D802	ED-307572	D SILICON H 1SS131
F1-A	△ EF-393708J	FUSE 218 TIME 250V 1.60A [AC-500/503R/505K]
F1-B	△ EF-403289N	FUSE 218 TIME 250V 1.25A [AC-600/603R/605K]
F2-A	△ EF-393708J	FUSE 218 TIME 250V 1.60A [AC-505K]
F2-B	△ EF-403289N	FUSE 218 TIME 250V 1.25A [AC-605K]
FL101	EO-356809	COIL TUN 1 100Z-121 100.00KHZ
FL102	EO-356809	COIL TUN 1 100Z-121 100.00KHZ
FL151	EO-356809	COIL TUN 1 100Z-121 100.00KHZ
FL152	EO-356809	COIL TUN 1 100Z-121 100.00KHZ
IB401	EH-429767J	COMP R RNMT-08-472J [AC-500/503R/505K]
IB402	EH-429765J	COMP R RNMT-12-472J [AC-600/603R/605K]
IC101	EI-429719J	IC CXA1897Q
IC351	EI-389264J	IC BA6209N [AC-600/603R/605K]
IC352	EI-389264J	IC BA6209N [AC-600/603R/605K]
IC401	EI-430845J	IC M38184M8-167FP TX1DECK-B1 [AC-600/603R/605K]
IC402	EI-430849J	IC M38173M6-354FP TX1DECK-A1 [AC-500/503R/505K]
IC501	EI-332259	IC TC4052BP
IC502	EI-400756J	IC NJM4558L-B

Ref. No.	Part No.	Description
IC601	EI-400756J	IC NJM4558L-B [AC-505K/605K]
IC701	EI-400756J	IC NJM4558L-B
IC702	EI-400756J	IC NJM4558L-B
IC703	EI-400756J	IC NJM4558L-B
IC704	EI-400756J	IC NJM4558L-B
J6	EJ-770294C	SOCKET TKC-V24X-A1 24P
J501	EJ-770361C	PIN J T5854-AACG P 2P
J851	△ EJ-770385C	SOCKET INLET CCT2302-0381 2P
L1	EO-404430J	COIL FIX 1 SPT0203SA T26 101J
L801	EO-418875J	COIL FIX 1 LAP02TA T26 2R2J [EXCEPT [S,Y7]]
L851	△ EO-416686J	COIL LF LF-4D-102 102UH
TM800	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P
TR1	ET-364060	TR DTC143ES
TR11	ET-770372C	TR FET 2SK372 GR,BL T05
TR12	ET-397160J	TR 2SC3330 R,S,T,U,V
TR21	ET-404320J	TR 2SC3331 T,U T05
TR22	ET-404320J	TR 2SC3331 T,U T05
TR23	ET-354364	TR DTC143TS
TR24	ET-397160J	TR 2SC3330 R,S,T,U,V
TR25	ET-366168	TR 2SD1292 Q,R
TR26	ET-397160J	TR 2SC3330 R,S,T,U,V
TR27	ET-354415	TR DTA144ES
TR28	ET-354414	TR DTC144ES
TR29	ET-397160J	TR 2SC3330 R,S,T,U,V
TR51	ET-364060	TR DTC143ES
TR61	ET-770372C	TR FET 2SK372 GR,BL T05
TR62	ET-397160J	TR 2SC3330 R,S,T,U,V
TR101	ET-397160J	TR 2SC3330 R,S,T,U,V
TR102	ET-405334J	TR DTA123JS T05
TR103	ET-354414	TR DTC144ES
TR141	ET-397160J	TR 2SC3330 R,S,T,U,V
TR151	ET-397160J	TR 2SC3330 R,S,T,U,V
TR201	ET-397160J	TR 2SC3330 R,S,T,U,V
TR202	ET-397160J	TR 2SC3330 R,S,T,U,V
TR203	ET-405334J	TR DTA123JS T05
TR204	ET-397160J	TR 2SC3330 R,S,T,U,V
TR205	ET-405334J	TR DTA123JS T05
TR251	ET-397160J	TR 2SC3330 R,S,T,U,V
TR252	ET-397160J	TR 2SC3330 R,S,T,U,V
TR254	ET-397160J	TR 2SC3330 R,S,T,U,V
TR301	ET-353899	TR 2SA1317 S,T,U
TR302	ET-354414	TR DTC144ES
TR303	ET-353899	TR 2SA1317 S,T,U
TR304	ET-354414	TR DTC144ES
TR305	ET-388338J	TR 2SB1425 S,E
TR306	ET-368786	TR DTC143ZS T05
TR307	ET-388338J	TR 2SB1425 S,E
TR308	ET-368786	TR DTC143ZS T05
TR309	ET-388338J	TR 2SB1425 S,E
TR310	ET-354365	TR DTC114YS
TR311	ET-388338J	TR 2SB1425 S,E
TR312	ET-388338J	TR 2SB1425 S,E
TR313	ET-354365	TR DTC114YS
TR314	ET-354415	TR DTA144ES
TR315	ET-368786	TR DTC143ZS T05
TR321	ET-397160J	TR 2SC3330 R,S,T,U,V
TR322	ET-397160J	TR 2SC3330 R,S,T,U,V
TR351	ET-770401C	TR 2SD1055 Q,R [AC-600/603R/605K]
TR401	ET-354414	TR DTC144ES
TR402	ET-354414	TR DTC144ES
TR403	ET-354414	TR DTC144ES
TR404	ET-354414	TR DTC144ES
TR405	ET-354414	TR DTC144ES
TR406	ET-354414	TR DTC144ES
TR407	ET-354414	TR DTC144ES
TR408	ET-354414	TR DTC144ES
TR409	ET-354365	TR DTC114YS [AC-600/603R/605K]
TR701	ET-360399	TR DTC114TS
TR702	ET-360399	TR DTC114TS
TR703	ET-360399	TR DTC114TS
TR704	ET-360399	TR DTC114TS
TR705	ET-360399	TR DTC114TS
TR706	ET-360399	TR DTC114TS

Ref. No.	Part No.	Description
TR707	ET-360399	TR DTC114TS
TR708	ET-360399	TR DTC114TS
TR709	ET-360399	TR DTC114TS
TR710	ET-360399	TR DTC114TS
TR751	ET-360399	TR DTC114TS
TR752	ET-360399	TR DTC114TS
TR753	ET-360399	TR DTC114TS
TR754	ET-360399	TR DTC114TS
TR755	ET-360399	TR DTC114TS
TR801	ET-337759	TR FET 2SK246 GR
		[AC-503R/603R]
TR802	ET-397160J	TR 2SC3330 R,S,T,U,V
TR803	ET-397160J	TR 2SC3330 R,S,T,U,V
TR804	ET-354094	TR DTC114WS
TR805	ET-354370	TR DTA124ES
TR806	ET-360399	TR DTC114TS
TR807	ET-360399	TR DTC114TS
TS800	ES-362883	SW TACT SKHLM
TU800-A	EE-429721N	TUNER TFCB3E512AFM/MW/LW
		[B,E]
TU800-B	EE-429723N	TUNER TFCB1U512AFWAM
		[S,U5,Y6,U8]
TU800-C	EE-429724N	TUNER TFCB1S512AFM/MW/SW
		[Y7]
VR301	EV-440239J	R S-FIX V T05EVNDCAA03 0.1W222
VR302	EV-403988J	R S-FIX V T05EVNDCAA03 0.1W102
VR303	EV-440239J	R S-FIX V T05EVNDCAA03 0.1W222
VR304	EV-403988J	R S-FIX V T05EVNDCAA03 0.1W102
X401	EI-405327J	OSC CE CST6.00MGW 6.000MHZ

16. CD-FLD P.C. BOARD

Ref. No.	Part No.	Description
D901	ED-307572	D SILICON H 1SS131
IB901	EH-422066J	COMP R RGL8T 473J
IC901	EI-419341J	IC MN12510F
IN901	EM-429736N	IND FL 6-ST-35GK CHARACTER
TS901	ES-394493J	SW TACT SOA-123HS
TS902	ES-394493J	SW TACT SOA-123HS
TS903	ES-394493J	SW TACT SOA-123HS
X901	EI-396490J	OSC CE CST4.00MGW-TF01 T05

17. BIAS OSC P.C. BOARD

Ref. No.	Part No.	Description
T1	EO-770297C	COIL OSC 1 C1040

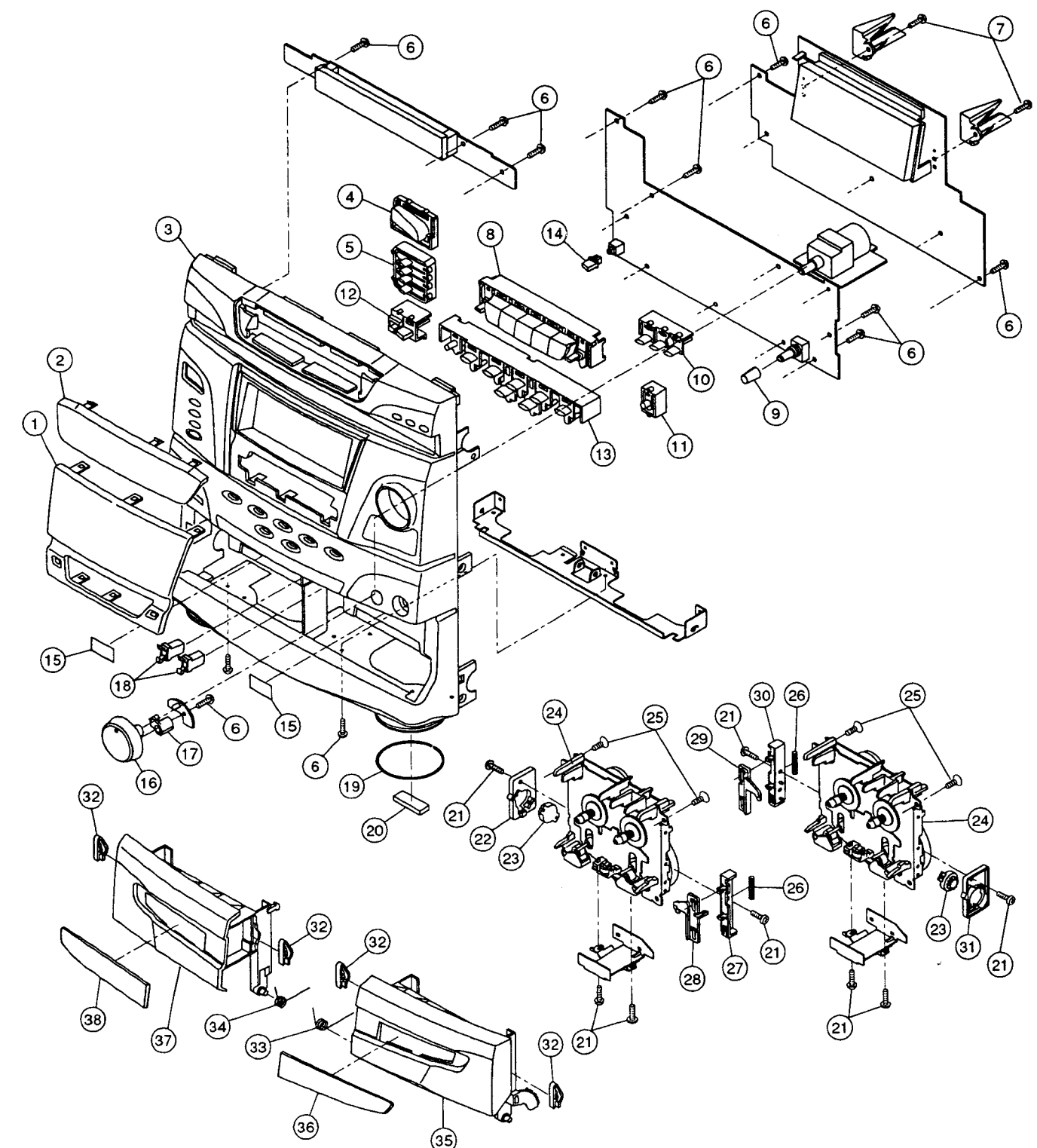
18. FRONT PANEL ASSEMBLY (AC-500/503R/505K)

Ref. No.	Part No.	Description
1	SE-770021C	WINDOW FLD(B) (CH)
2	SE-770020C	WINDOW FLD(A) (CH)
3-A	SP-770063C	PANEL FRONT AC-500 (CH)
3-B	SP-770064C	PANEL FRONT AC-503R (CH)
3-C	SP-770065C	PANEL FRONT AC-505K (CH)
4	SB-770022C	BUTTON POW (CH)
5	SB-770023C	BUTTON TIMER (CH)
6	ZS-394414J	BT BID30X08STL BZN
7	ZS-331875	PT BR30X12STL CMT
8	SB-429136J	BUTTON OP
9	SK-770043C	KNOB MIC (CH)
10	SB-770033C	BUTTON DISK (CH)
11	SB-770024C	BUTTON KARAOKE (CH)
		[AC-505K]
12	SB-770025C	BUTTON DOLBY (CH)
13	SB-770026C	BUTTON SELECTOR (CH)
14	SB-770027C	BUTTON SURROUND (CH)
15	SE-770069C	REFLECTOR (CH)
16	SK-770042C	KNOB VOLUME (CH)
17	SE-770041C	LENS VOLUME (CH)
18	SZ-418537J	LATCH 29K0
19	SZ-770070C	RING FOOT (CH)
20	SA-770071C	CUSHION FOOT (CH)
21	ZS-370834	BID26X05STL BZN
22	MZ-770006C	HOLDER DAMPER(L) (CH)
23	MZ-7700362C	DUMPER DA-06W/W(105)
24-A	BB-429731N	MECHA CMAL2Z047A(PB) (TAPE I)
24-B	BB-429730N	MECHA CMAL2Z048A(R/P) (TAPE II)
25	ZS-376875	BT CTS30X08STL BNI
26	ZG-770005C	SP PUSH INTERLOCK (CH)
27	MZ-770003C	PLATE INTERLOCK(L) (CH)
28	ML-770001C	LEVER INTERLOCK(L) (CH)
29	ML-770002C	LEVER INTERLOCK(R) (CH)
30	MZ-770004C	PLATE INTERLOCK(R) (CH)
31	MZ-770007C	HOLDER DAMPER(R) (CH)
32	ZG-770058C	SP PLATE CASSETTE (CH)
33	ZG-770030C	SP TORSION EJECT(R) (CH)
34	ZG-770029C	SP TORSION EJECT(L) (CH)
35	SP-770057C	LID PANEL(R) (CH)
36	SE-770059C	WINDOW LID(R) (CH)
37	SP-770060C	LID PANEL(L) (CH)
38	SE-770062C	WINDOW LID(L) (CH)

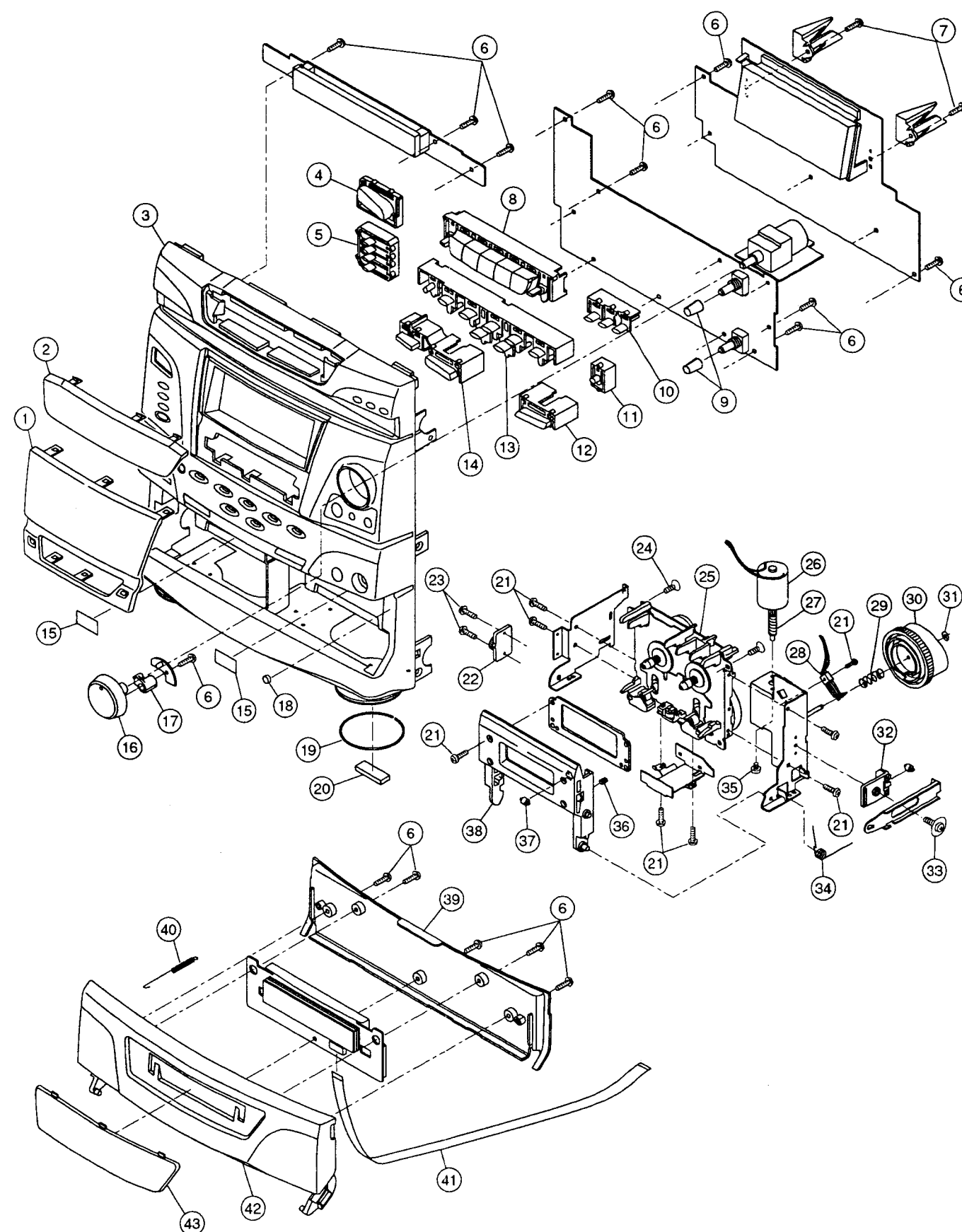
NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

FRONT PANEL ASSEMBLY (AC-500/503R/505K)



FRONT PANEL ASSEMBLY (AC-600/603R/605K)



PARTS LIST

19. FRONT PANEL ASSEMBLY (AC-600/603R/605K)

Ref. No.	Part No.	Description
1	SE-770021C	WINDOW FLD(B) (CH)
2	SE-770020C	WINDOW FLD(A) (CH)
3-A	SP-770066C	PANEL FRONT AC-600 (CH)
3-B	SP-770067C	PANEL FRONT AC-603R (CH)
3-C	SP-770068C	PANEL FRONT AC-605K (CH)
4	SB-770022C	BUTTON POW (CH)
5	SB-770023C	BUTTON TIMER (CH)
6	ZS-394414J	BT BID30X08STL BZN
7	ZS-331875	PT BR30X12STL CMT
8	SB-429136J	BUTTON OP (CH)
9	SK-770043C	KNOB MIC (CH)
10	SB-770033C	BUTTON DISK (CH)
11	SB-770024C	BUTTON KARAOKE (CH)
		[AC-605K]
12	SB-770100C	BUTTON EJECT(R) (CH)
13	SB-770026C	BUTTON SELECTOR (CH)
14	SB-770099C	BUTTON EJECT(L) (CH)
15	SE-770069C	REFLECTOR (CH)
16	SK-770042C	KNOB VOLUME (CH)
17	SE-770041C	LENS VOLUME (CH)
18	SZ-770072C	CUSHION DOOR (CH)
19	SZ-770070C	RING FOOT (CH)
20	SA-770071C	CUSHION FOOT (CH)
21	ZS-370834	BID26X05STL BZN
22	MZ-408740J	DUMPER 2G50-C
23	ZS-357727	ST PAN20X05STL CMT
24	ZS-376875	BT CTS30X08STL BNI
25-A	BB-429731N	MECHA CMAL2Z047A(PB) (TAPE I)
25-B	BB-429730N	MECHA CMAL2Z048A(R/P) (TAPE II)
26	BM-374198	MOTOR RF-370CA-15370
27	MZ-429135J	WORM
28	ES-408755M	SW LEAF LSA-2127E
29	ZG-770010C	SP PUSH CAM GEAR (CH)
30	MZ-770011C	CAM GEAR EJECT (CH)
31	ZW-377824	SLIT W26X050X025LMN
32	MZ-770016C	PLATE EJECT (CH)
33	ZS-770018C	SCREW GRADUATED(1) (CH)
34	ZG-770096C	SP TORSION EJECT (CH)
35	ZS-432674	PAN30X03STL CMT
36	ZG-770013C	SP PUSH CASSETTE (CH)
37	MR-407755M	ROLLER (SG)
38	MZ-770012C	HOLDER CASSETTE (CH)
39	SP-770103C	COVER DOOR (CH)
40	ZG-770104C	SP PULL DOOR (CH)
41	EW-770355C	CORD FFCAD P1.25 L320 10P
42	SP-770101C	DOOR (CH)
43	SE-770102C	WINDOW DOOR (CH)

NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

20. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1	SM-770094C	NAME PLATE AKAI (CH)
2	SP-770044C	PANEL TRAY (CH)
3	ZS-394412J	BT BID30X08STL BZN PROJECTION
4	SP-429405N	COVER UPPER (SG)
5	ZS-394414J	BT BID30X08STL BZN
6-A	SP-429396N	PANEL REAR AC-500(E,B) (SG)
6-B	SP-429397N	PANEL REAR AC-500(S) (SG)
6-C	SP-429395N	PANEL REAR AC-503R(E) (SG)
6-D	SP-429398N	PANEL REAR AC-505K(U5,Y6) (SG)
6-E	SP-429400N	PANEL REAR AC-505K(U8,Y7) (SG)
6-F	SP-429403N	PANEL REAR AC-600(E,B) (SG)
6-G	SP-429402N	PANEL REAR AC-600(S) (SG)
6-H	SP-429399N	PANEL REAR AC-603R(E) (SG)
6-I	SP-429469N	PANEL REAR AC-605K(U5,Y6) (SG)
6-J	SP-429470N	PANEL REAR AC-605K(U8,Y7) (SG)
7	ZS-393644N	ST BID30X08STL BZN PROJECT(SG)
		[AC-505K/605K]
8	△ ES-418650J	SW SELECT ESE-37311
		[AC-505K/605K]
9	ZS-346742	ST PAN40X08STL CMT CUP
10-A	△ BT-770379C	TRANS POW C1040 EV
		[AC-500(E,B)/503R]
10-B	△ BT-770380C	TRANS POW C1040 S
		[AC-500(S)]
10-C	△ BT-770381C	TRANS POW C1040 U
		[AC-505K]
10-D	△ BT-770382C	TRANS POW C1041 EV
		[AC-600(E,B)/603R]
10-E	△ BT-770383C	TRANS POW C1041 S
		[AC-600(S)]
10-F	△ BT-770384C	TRANS POW C1041 U
		[AC-605K]
11	SA-770034C	CUSHION FOOT REAR (CH)
12	ZS-395789J	BT BID30X16STL BZN
13	ZS-376875	BT CTS30X08STL BNI
14-A	△ EW-412522J1	AC CORD200S KP419CKS15F B V
		[E,U5,Y7,U8]
14-B	△ EW-419250M	AC CORD 200 S SA-5SA-6 S
		[S]
14-C	△ EW-419248M	AC CORD 200S SE-5 SE-6 B B
		[B,Y6]

NOTE :

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

21. ACCESSORY

Ref. No.	Part No.	Description
1-A	AX-429824J	REMOCON RC-S500
		[AC-500/503R/505K]
1-B	AX-429823J	REMOCON RC-S600
		[AC-600/603R/605K]
2	AX-415039M	ANT LOOP WAU0990-0172M
3	EE-396107M	ANT WIRE FMA3063
4	EJ-394417J	SOCKET COAX HXC 0526-01-010

PARTS LIST

[illegible]

6-2. SPEAKER SYSTEMS

1. Model SR-500

Ref. No.	Part No.	Description
1	1550-658	SPEAKER TWEETER (FLAT PIEZO)
2	1550-657	SPEAKER MIDRANGE OT-57-248
3	1550-656	SPEAKER WOOFER ATM130ARX 130-70/6
4	3917-566	FRONT GRILL (L)
5	3917-565	FRONT GRILL (R)
6	7725-017	BADGE AKAI
7	6654-188	CATCHER (RUBBER BUSH)

2. Model SR-600

Ref. No.	Part No.	Description
1	SS 734020K	SPEAKER CT-40F02 40MM [PIEZO-TWEETER]
2	SS 734019K	SPEAKER CT-57F12 57MM [MID-RANGE]
3-A	SS 734017K	SPEAKERTAU-13W03006 WO 135MM [WOOFER] [X4]
3-B	SS 734018K	SPEAKERTAU-13W03007 WO 135MM [WOOFER] [Y1]
4	TS 734021K	NET FRAME (L) SR-600
5	TS 734022K	NET FRAME (R) SR-600
6	SM 734023K	BUDGE AKAI
7	EJ 734024K	TERMINAL SPEAKER SR-600
8	TS 734025K	RUBBER HOOK

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Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
AX415039M	21-2	ED307572	5-D281	ED394708J	5-D1	EH422066J	8-IB1
AX429823J	21-1-B	ED307572	5-D282	ED394708J	6-D1	EH422066J	16-IB901
AX429824J	21-1-A	ED307572	5-D283	ED395862J	5-D111	EH429765J	15-IB402
BAC1040C060A	4-1-A	ED307572	5-D284	ED395862J	15-D351	EH429767J	8-IB2
BAC1040C060B	4-1-B	ED307572	5-D285	ED400171J	5-D113	EH429767J	15-IB401
BAC1040C070A	4-2-A	ED307572	5-D286	ED400171J	5-D133	EH429768J	7-IB801
BAC1040C070B	4-2-B	ED307572	5-D287	ED400171J	5-D301	EI200573	5-IC503
BAC1040C070C	4-2-C	ED307572	5-D288	ED400171J	5-D302	EI200573	5-IC504
BAC1040C070D	4-2-D	ED307572	5-D303	ED400171J	15-D502	EI200573	5-IC603
BAC1040C070E	4-2-E	ED307572	5-D304	ED400171J	15-D801	EI200573	6-IC503
BAC1040C070F	4-2-F	ED307572	5-D305	ED407083J	5-D112	EI200573	6-IC504
BAC1040C070G	4-2-G	ED307572	5-D601	ED407083J	5-D119	EI200573	6-IC603
BAC1040C070H	4-2-H	ED307572	5-D602	ED407083J	6-D116	EI332259	5-IC602
BAC1040C070J	4-2-I	ED307572	5-D603	ED422073J	5-D122	EI332259	6-IC602
BAC1040C070K	4-2-J	ED307572	6-D10	ED422073J	6-D122	EI332259	15-IC501
BAC1040C080A	4-3-A	ED307572	6-D11	ED425401J	6-D104	EI349591	6-IC402
BAC1040C080B	4-3-B	ED307572	6-D12	ED425401J	6-D111	EI389264J	15-IC351
BAC1040C080C	4-3-C	ED307572	6-D13	ED429758J	9-D111	EI389264J	15-IC352
BAC1040C080D	4-3-D	ED307572	6-D14	ED429758J	9-D112	EI394709J	5-IC1
BAC1040C080E	4-3-E	ED307572	6-D102	ED429758J	9-D113	EI396490J	7-X801
BAC1040C080F	4-3-F	ED307572	6-D113	ED429758J	9-D114	EI396490J	8-X4
BAC1040C080G	4-3-G	ED307572	6-D114	ED429758J	9-D115	EI396490J	16-X901
BAC1040C080H	4-3-H	ED307572	6-D115	ED429758J	9-D116	EI400756J	5-IC505
BAC1040C080J	4-3-I	ED307572	6-D121	ED429758J	9-D117	EI400756J	5-IC506
BAC1040C080K	4-3-J	ED307572	6-D303	ED429759J	9-D100	EI400756J	5-IC605
BAC1041C060A	4-1-C	ED307572	6-D304	ED429759J	9-D101	EI400756J	6-IC401
BAC1041C060B	4-1-D	ED307572	6-D305	ED429759J	9-D102	EI400756J	6-IC505
BB429714N	2-29	ED307572	6-D441	ED429759J	9-D103	EI400756J	6-IC506
BB429730N	18-24-B	ED307572	6-D601	ED429759J	9-D104	EI400756J	6-IC605
BB429730N	19-25-B	ED307572	6-D602	ED429759J	9-D105	EI400756J	11-IC400
BB429731N	18-24-A	ED307572	6-D603	ED429759J	9-D106	EI400756J	11-IC401
BB429731N	19-25-A	ED307572	6-D604	ED429759J	9-D107	EI400756J	15-IC502
BF734046J	3-36	ED307572	8-D1	ED429759J	9-D108	EI400756J	15-IC601
BH734026J	3-1-A	ED307572	8-D2	ED429759J	9-D109	EI400756J	15-IC701
BH734027J	3-1-B	ED307572	8-D3	ED429759J	9-D110	EI400756J	15-IC702
BL734033J	3-14	ED307572	8-D4	ED429759J	9-D118	EI400756J	15-IC703
BL734034J	3-13	ED307572	8-D5	ED429759J	13-D700	EI400756J	15-IC704
BL770074C	2-14	ED307572	10-D260	ED431031N	5-D2	EI405224J	8-IC3
BM374198	2-7	ED307572	10-D311	ED431031N	5-D3	EI405327J	8-X2
BM374198	19-26	ED307572	10-D312	ED431031N	5-D4	EI405327J	15-X401
BM408752M1	2-22	ED307572	10-D313	ED431031N	5-D5	EI415159J	8-IC4
BM733203M	2-34	ED307572	15-D1	ED431031N	6-D2	EI416515J	8-IC5
BM734028J	3-40	ED307572	15-D3	ED431031N	6-D3	EI416694M	8-X3
B0394728J3	2-31	ED307572	15-D301	ED431031N	6-D4	EI419334J	10-IC310
BT770379C	20-10-A	ED307572	15-D302	ED431031N	6-D5	EI419341J	7-IC801
BT770380C	20-10-B	ED307572	15-D352	ED511907	5-D6	EI419341J	16-IC901
BT770381C	20-10-C	ED307572	15-D353	ED511907	5-D7	EI427639J	6-X602
BT770382C	20-10-D	ED307572	15-D401	ED511907	5-D8	EI427640J	5-X603
BT770383C	20-10-E	ED307572	15-D402	ED511907	5-D105	EI427640J	6-X603
BT770384C	20-10-F	ED307572	15-D802	ED511907	5-D106	EI428178J	5-IC606
EA733204M	2-35	ED307572	16-D901	ED511907	6-D6	EI428178J	6-IC606
EC322420	5-C3	ED346528	6-D112	ED511907	6-D7	EI428194J	9-IC100
EC322420	6-C3	ED346528	6-D133	ED511907	6-D8	EI428194J	10-IC260
EC363489	6-C5	ED346528	9-D119	ED511907	6-D105	EI429718J	10-IC200
EC367048	5-C5	ED346528	11-D400	ED511907	10-D290	EI429719J	15-IC101
EC383075J	6-C1	ED387763J	5-D101	ED511907	10-D291	EI429720J	10-IC240
EC383075J	6-C2	ED387763J	5-D104	ED511907	10-D292	EI429746J	5-IC604
EC394535J	5-C1	ED387919J	5-D9	ED511907	10-D293	EI429746J	6-IC604
EC394535J	5-C2	ED387919J	6-D9	ED511907	10-D294	EI430845J	15-IC401
EC416655J	8-C6	ED387919J	6-D301	EE396107M	21-3	EI430846J	8-IC1
EC422101J	15-C851	ED387919J	6-D302	EE429721N	15-TU800-A	EI430849J	15-IC402
ED307572	5-D102	ED387919J	10-D310	EE429723N	15-TU800-B	EI430892J	6-IC201
ED307572	5-D103	ED390012J	12-D500	EE429724N	15-TU800-C	EI430893J	5-X601
ED307572	5-D114	ED390651J	5-D131	EF393708J	15-F1-A	EI430893J	6-X601
ED307572	5-D115	ED390651J	5-D132	EF393708J	15-F2-A	EI431323N	8-X1
ED307572	5-D116	ED390651J	6-D101	EF394703N	5-F3	EI770299C	8-IC2
ED307572	5-D117	ED390651J	6-D131	EF394703N	6-F3	EI770309C	9-IC101
ED307572	5-D118	ED390651J	6-D132	EF403289N	15-F1-B	EI770309C	9-IC102
ED307572	5-D121	ED390651J	15-D501	EF403289N	15-F2-B	EI770310C	9-IC103
ED307572	5-D123	ED391003J	15-D2	EH382267J	10-FL320	EI770315C	10-IC320

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
EI770316C	10-IC321	ER341940	6-R258	ET353899	5-TR111	ET360399	6-TR607
EI770322C	10-X240	ER341940	6-R277	ET353899	5-TR124	ET360399	6-TR608
EI770346C	6-IC403	ER341940	6-R278	ET353899	5-TR284	ET360399	6-TR609
EI770366C	10-IC290	ER362495	5-R207	ET353899	6-TR101	ET360399	6-TR610
EI770396C	10-X320	ER362495	5-R210	ET353899	6-TR111	ET360399	6-TR611
EI770397C	10-X321	ER382474J	10-R313	ET353899	6-TR124	ET360399	6-TR612
EJ359031	15-TM800	ER387923J	5-R208	ET353899	6-TR282	ET360399	10-TR261
EJ359671	5-J201	ER387923J	5-R209	ET353899	6-TR441	ET360399	10-TR262
EJ394417J	21-4	ER397194J	5-R295	ET353899	8-TR10	ET360399	11-TR401
EJ394490J	10-J240	ER397194J	5-R296	ET353899	8-TR11	ET360399	11-TR402
EJ408698J	5-TM201	ER405439J	6-R111	ET353899	8-TR12	ET360399	15-TR701
EJ408698J	6-TM201	ER422301J	6-R281	ET353899	9-TR100	ET360399	15-TR702
EJ410383J	9-J100	ER422301J	6-R282	ET353899	9-TR101	ET360399	15-TR703
EJ410383J	9-J101	ER770329C	5-R152	ET353899	10-TR200	ET360399	15-TR704
EJ429744J	6-J201	ER770329C	5-R153	ET353899	10-TR201	ET360399	15-TR705
EJ429877N	7-J801	ER770332C	5-R151	ET353899	10-TR320	ET360399	15-TR706
EJ429877N	8-J10	ER770335C	5-R212	ET353899	15-TR301	ET360399	15-TR707
EJ431103N	12-P500	ER770335C	5-R262	ET353899	15-TR303	ET360399	15-TR708
EJ431104N	14-P800	ER770348C	5-R3	ET354094	15-TR804	ET360399	15-TR709
EJ733206M	2-37	ER770373C	6-R101	ET354364	15-TR23	ET360399	15-TR710
EJ770294C	15-J6	ER770375C	5-R311	ET354365	5-TR106	ET360399	15-TR751
EJ770300C	8-P1	ER770375C	5-R312	ET354365	6-TR106	ET360399	15-TR752
EJ770300C	8-P2	ER770375C	6-R311	ET354365	6-TR301	ET360399	15-TR753
EJ770301C	8-P3	ER770375C	6-R312	ET354365	6-TR302	ET360399	15-TR754
EJ770302C	8-P5	ER770389C	6-R3	ET354365	15-TR310	ET360399	15-TR755
EJ770303C	8-P6	ER770390C	5-R101	ET354365	15-TR313	ET360399	15-TR806
EJ770311C	9-J1	ER770391C	5-R111	ET354365	15-TR409	ET360399	15-TR807
EJ770311C	9-J2	ER770400C	6-R313	ET354370	15-TR805	ET361736	8-TR2
EJ770312C	9-J3	ES362883	15-TS800	ET354414	5-TR281	ET361736	8-TR3
EJ770347C	5-J5	ES391710J	3-5	ET354414	5-TR282	ET363953	5-TR118
EJ770347C	6-J5	ES394493J	9-TS100	ET354414	5-TR283	ET363953	5-TR119
EJ770361C	15-J501	ES394493J	9-TS101	ET354414	5-TR285	ET363953	5-TR120
EJ770385C	15-J851	ES394493J	9-TS102	ET354414	6-TR1	ET364060	8-TR13
EJ770407C	10-J320	ES394493J	9-TS103	ET354414	6-TR285	ET364060	8-TR15
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ER200746	5-FR1	ES418650J	20-8	ET356336	5-TR305	ET397160J	5-TR112
ER200746	5-FR2	ES419356N	9-SW100	ET356336	5-TR306	ET397160J	5-TR115
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ER325381	8-FR1	ES770378C	9-TS118	ET360399	5-TR605	ET397160J	5-TR304
ER333023	5-R690	ES770378C	9-TS121	ET360399	6-TR102	ET397160J	5-TR307
ER333023	6-R690	ES770388C	10-SW320	ET360399	6-TR113	ET397160J	5-TR308
ER336772	5-R211	ET337759	15-TR801	ET360399	6-TR442	ET397160J	6-TR103
ER336772	5-R261	ET353897	5-TR102	ET360399	6-TR603	ET397160J	6-TR112
ER341940	6-R207	ET353897	5-TR301	ET360399	6-TR604	ET397160J	6-TR115
ER341940	6-R208	ET353897	5-TR302	ET360399	6-TR605	ET397160J	6-TR281
ER341940	6-R257	ET353899	5-TR101	ET360399	6-TR606	ET397160J	6-TR283

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
ET397160J	6-TR303	MB770359C	2-26	SE770062C	18-38	ZS464703	3-3
ET397160J	6-TR304	MB770360C	2-27	SE770069C	18-15	ZS477876	2-38
ET397160J	6-TR314	MI734032J	3-24	SE770069C	19-15	ZS733439J	3-17
ET397160J	6-TR315	ML734038J	3-19	SE770102C	19-43	ZS733963J	3-2
ET397160J	6-TR316	ML734050J	3-37	SK770042C	18-16	ZS770018C	19-33
ET397160J	8-TR8	ML770001C	18-28	SK770042C	19-16	ZS770083C	2-28
ET397160J	8-TR9	ML770002C	18-29	SK770043C	18-9	ZW259738	3-12
ET397160J	10-TR311	MR407755M	2-19	SK770043C	19-9	ZW354346	3-29
ET397160J	10-TR321	MR407755M	19-37	SM770094C	20-1	ZW377824	19-31
ET397160J	11-TR400	MR734041J	3-11	SP429395N	20-6-C	ZW396336M	2-8
ET397160J	15-TR12	MR734047J	3-33	SP429396N	20-6-A	ZW717841	3-34
ET397160J	15-TR24	MR770076C	2-12	SP429397N	20-6-B	ZW733433J	3-23
ET397160J	15-TR26	MR770079C	2-21	SP429398N	20-6-D	ZW733434J	3-16
ET397160J	15-TR29	MS733198M	2-30	SP429399N	20-6-H	ZW733441J	3-15
ET397160J	15-TR62	MS770086C	2-4	SP429400N	20-6-E	ZW734056J	3-28
ET397160J	15-TR101	MT734042J	3-8	SP429402N	20-6-G		
ET397160J	15-TR141	MZ408740J	19-22	SP429403N	20-6-F		
ET397160J	15-TR151	MZ413089J	2-17	SP429405N	20-4		
ET397160J	15-TR201	MZ429134J	2-5	SP429469N	20-6-I		
ET397160J	15-TR202	MZ429135J	19-27	SP429470N	20-6-J		
ET397160J	15-TR204	MZ733201M	2-32	SP770044C	20-2		
ET397160J	15-TR251	MZ734031J	3-32	SP770057C	18-35		
ET397160J	15-TR252	MZ734045J	3-38	SP770060C	18-37		
ET397160J	15-TR254	MZ734048J	3-35	SP770063C	18-3-A		
ET397160J	15-TR321	MZ734049J	3-27	SP770064C	18-3-B		
ET397160J	15-TR322	MZ734053J	3-21	SP770065C	18-3-C		
ET397160J	15-TR802	MZ734054J	3-20	SP770066C	19-3-A		
ET397160J	15-TR803	MZ770003C	18-27	SP770067C	19-3-B		
ET397176J	5-TR201	MZ770004C	18-30	SP770068C	19-3-C		
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ABBREVIATIONS (TUNER)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AFC	Auto Frequency Contro	IMEMO	MEMOry
AGC	Auto Gain Control	MI-COM	Micro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	Multi pleX
ANT	ANTenna	MW	Medium Wave (frequency)
BATT	BATTery	NC	No Connection
BLK	BLocK	NFB	Negative Feed Back
BUFF	BUFFer	OSC	OSCillator
COMP	COMPalator	PCB	Printed Circuit Board
DET	DETECT (DEtctor)	PLL	Phase Locked Loop
FLD	FLuorescent Display	Q.D	Quadrature Detector
FM	Frequency Modulation	R ch	Right channel
FREQ	FREQuency	REF	REFerence
GND	GrouND	REG	REGulator
H	Hight	RF	Radio Frequency
HPF	Hight Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institut of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	SW	SWitch: Short Wave (frequency)
Lch	Left channel	THD	Total Harmonic Distortion
LED	Light Emiting Diode	TP	Test Point
LPF	Low Pass Filter	VCO	Voltage Controlled Cscillator
LW	Long Wave (Frequency)	VR	Variable Resistor
		X'TAL	crysTAL

ABBREVIATIONS (AMPLIFIER)

ABBREVIATIN	EXPLANATION	ABBREVIATION	EXPLANATION
A	Analog	MC	Moving Coil
AC	Alternating Current	MM	Moving Magnet
AMP	AMPlifier	PCB	Printed Circuit Board
CD	Compact Disc	R	Right
COM	COMmon	REG	REGulator
D	Digital	REC	RECord
D/A	Digital to Analog	TR	TRansistor
DAC	Digital to Analog Converter	SW	SWitch
DAT	Digital Audio Tape recorder	V.AMP	Voltage AMPlifier
DC	Direct Current	V.DISC	Video DISC
GND	GrouND	VR	Variable Resistance
L	Left	VTR	Video Tape Recorder
LED	Light Emitting Diode		

AKAI

MODEL AC-500, 503R, 505K

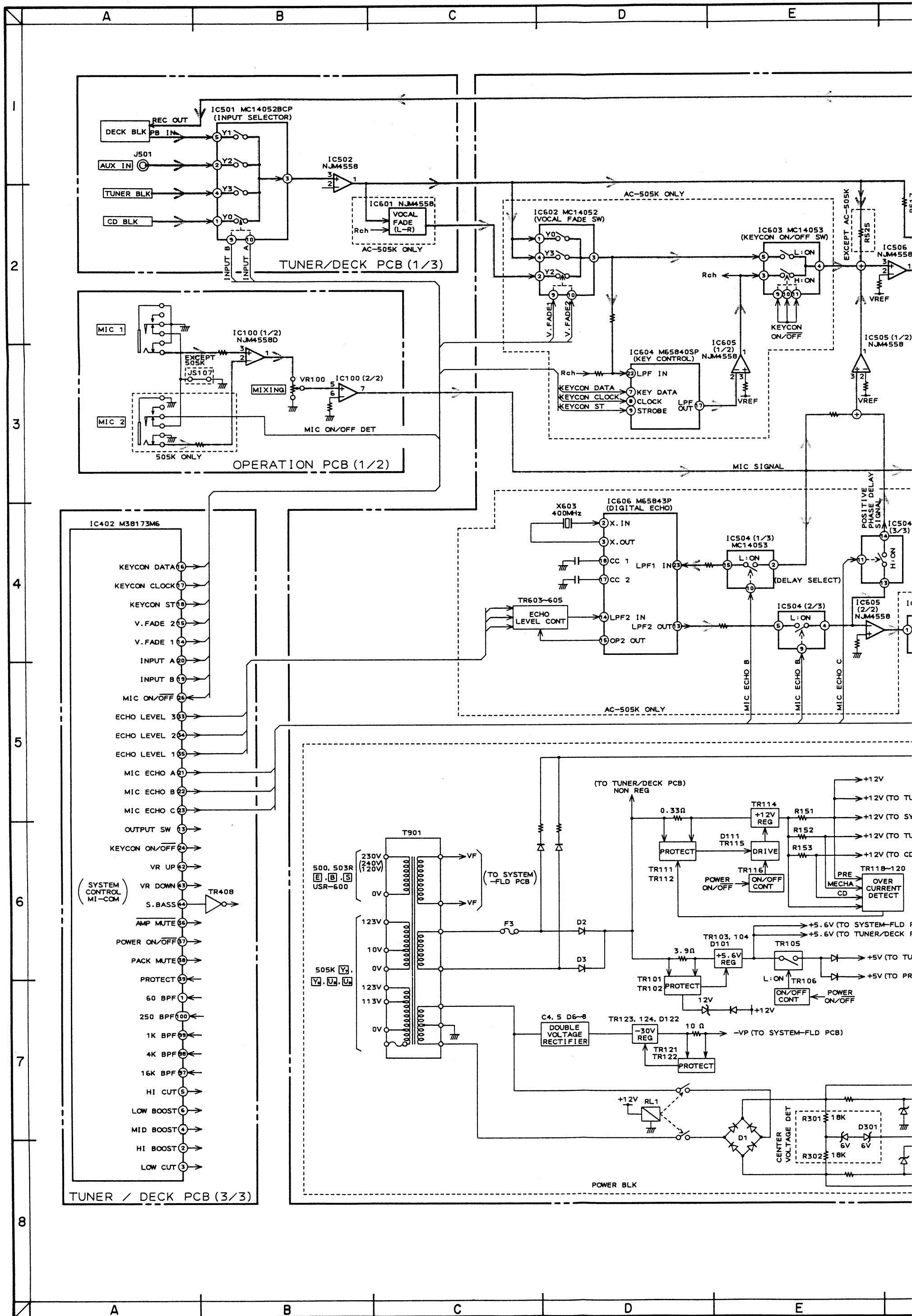
MODEL AC-600, 603R, 605K

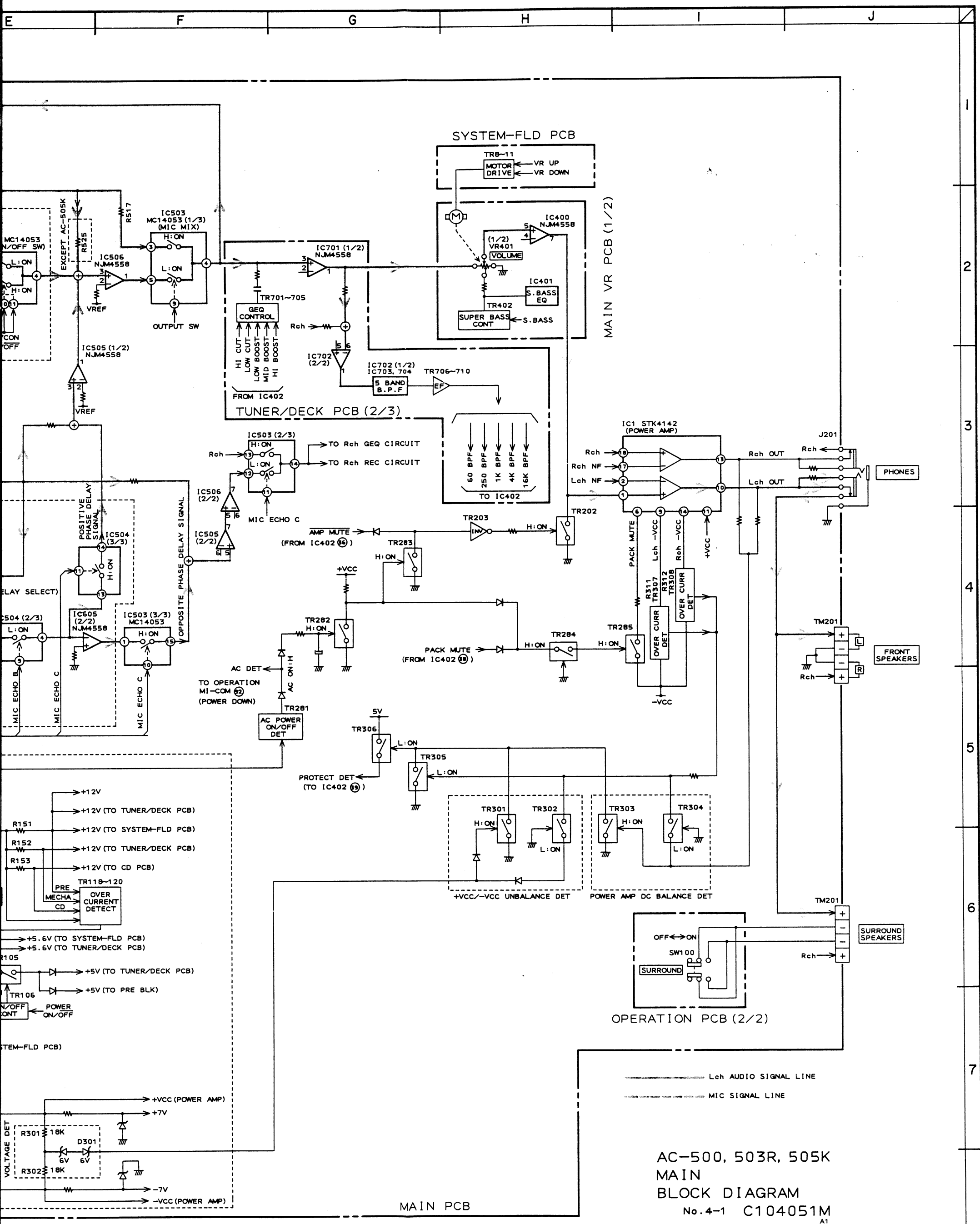
SCHEMATIC DIAGRAMS AND PC BOARDS

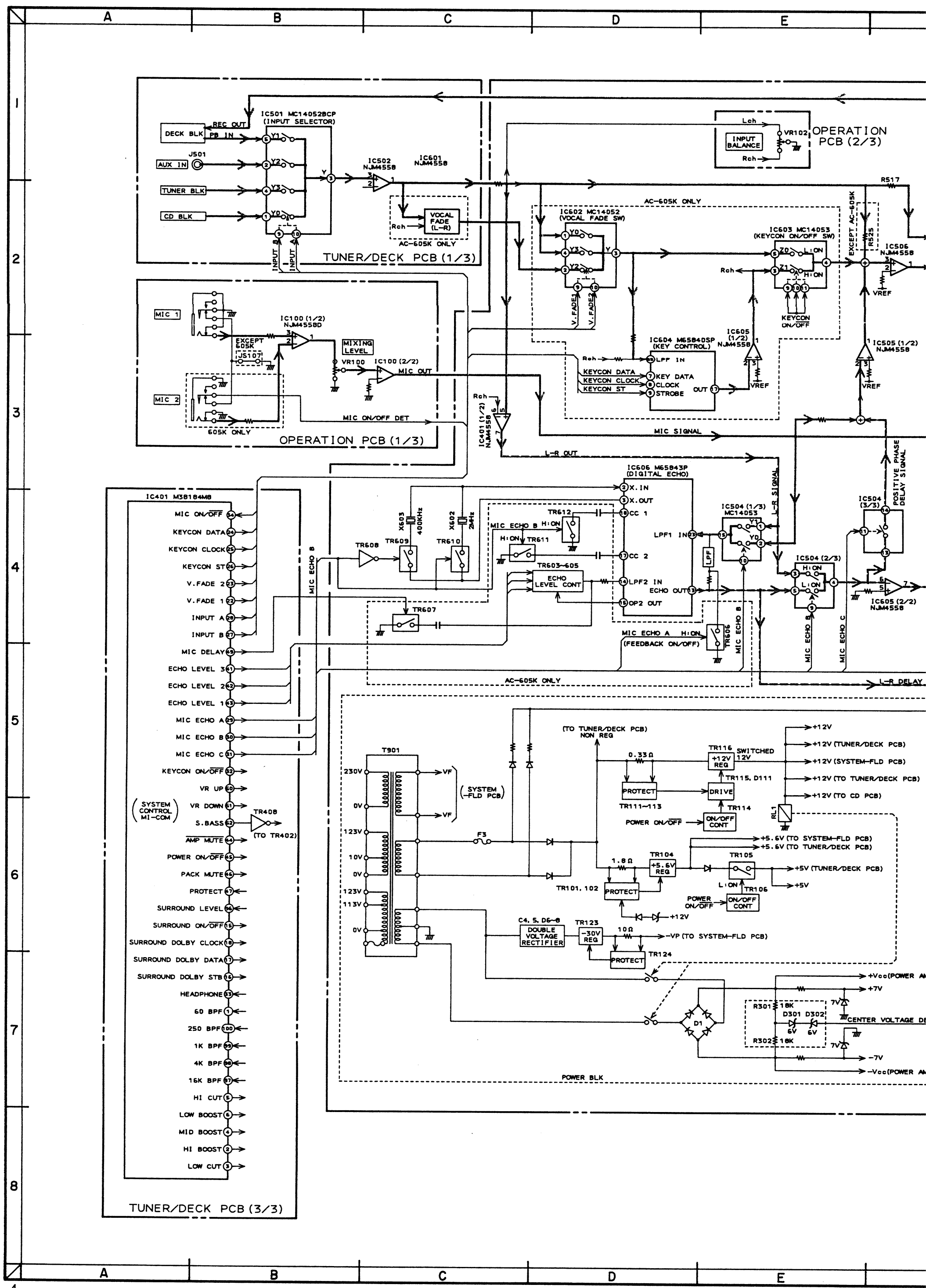
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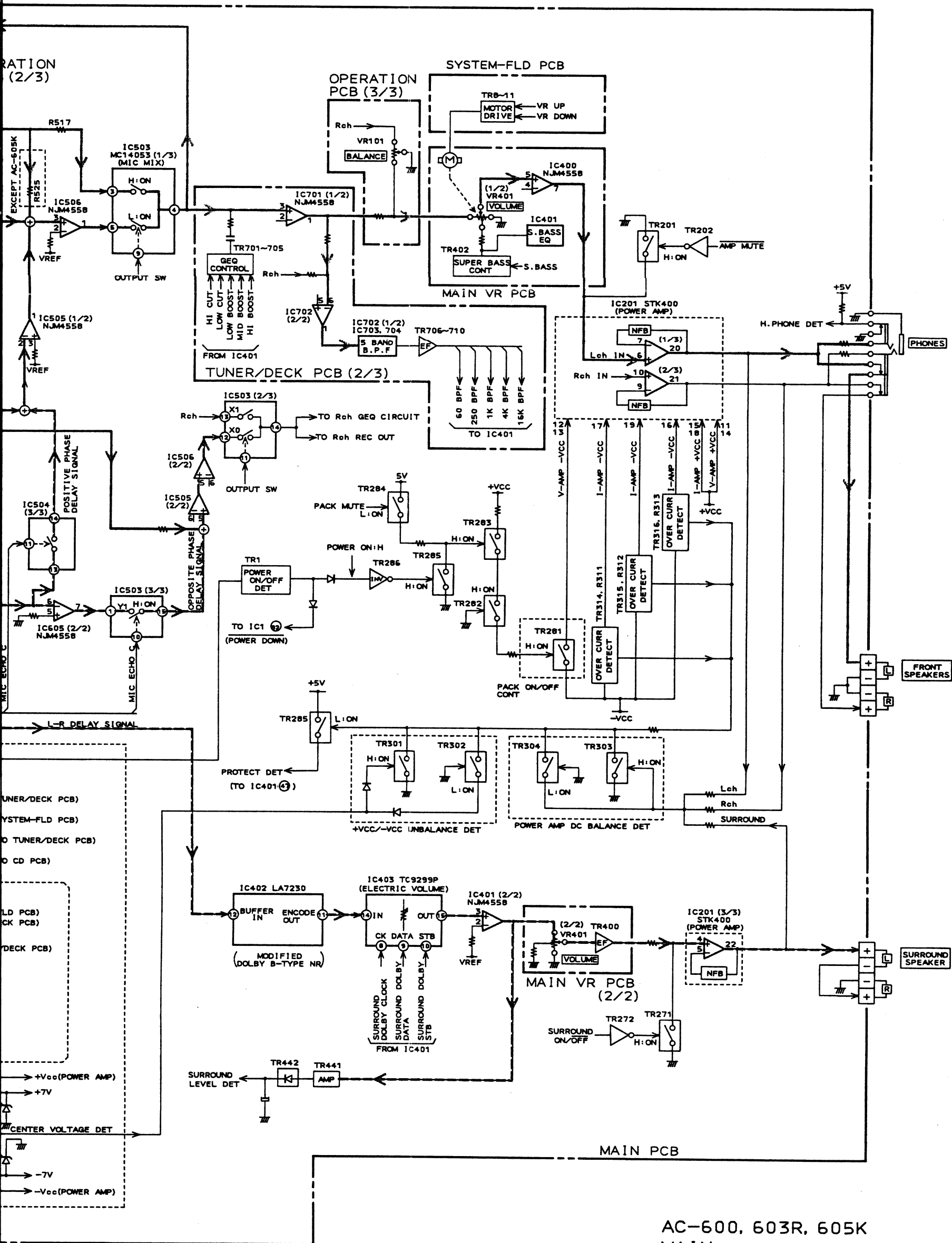
Use these schematic diagrams and PC boards together with the provided service manual.



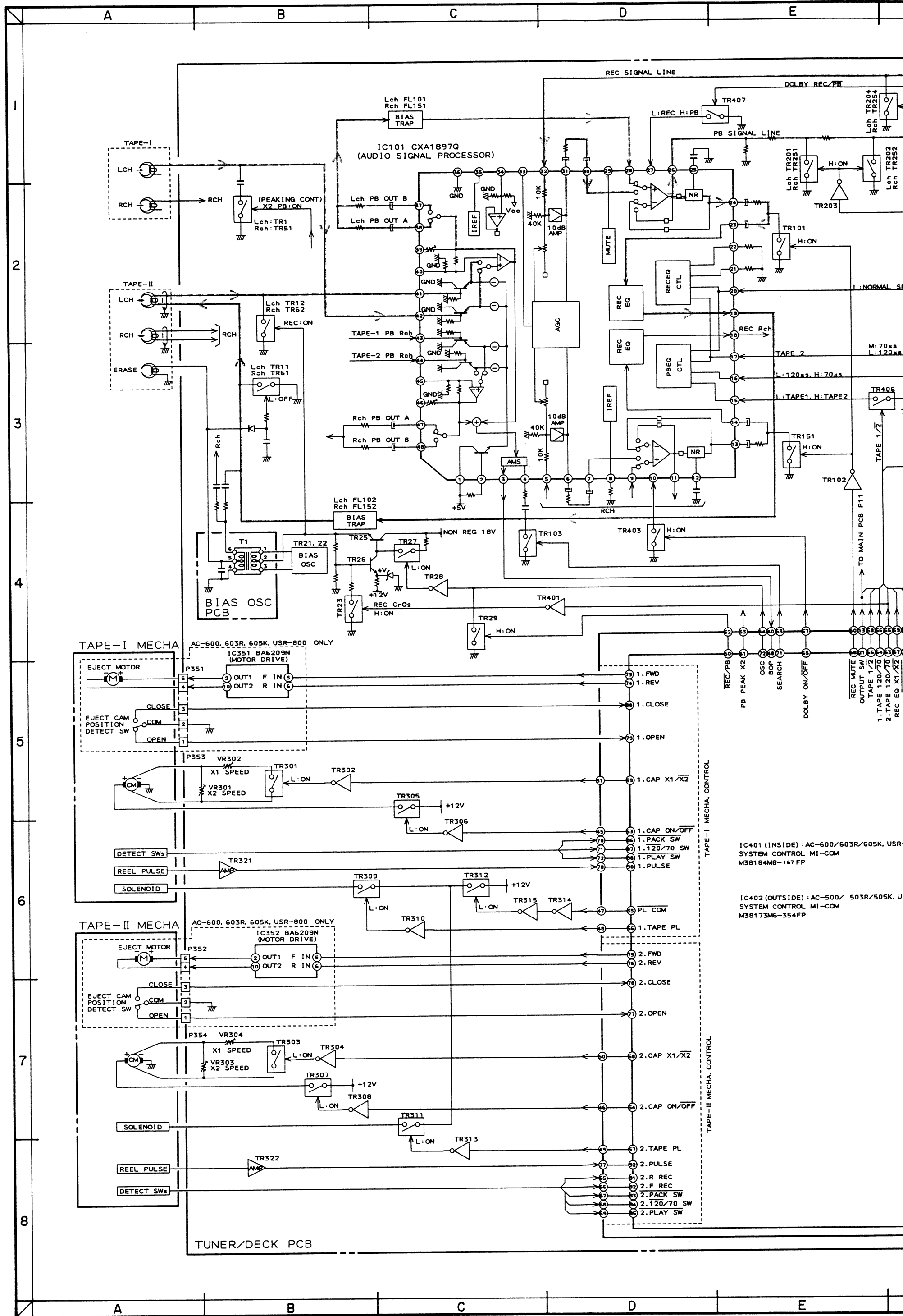


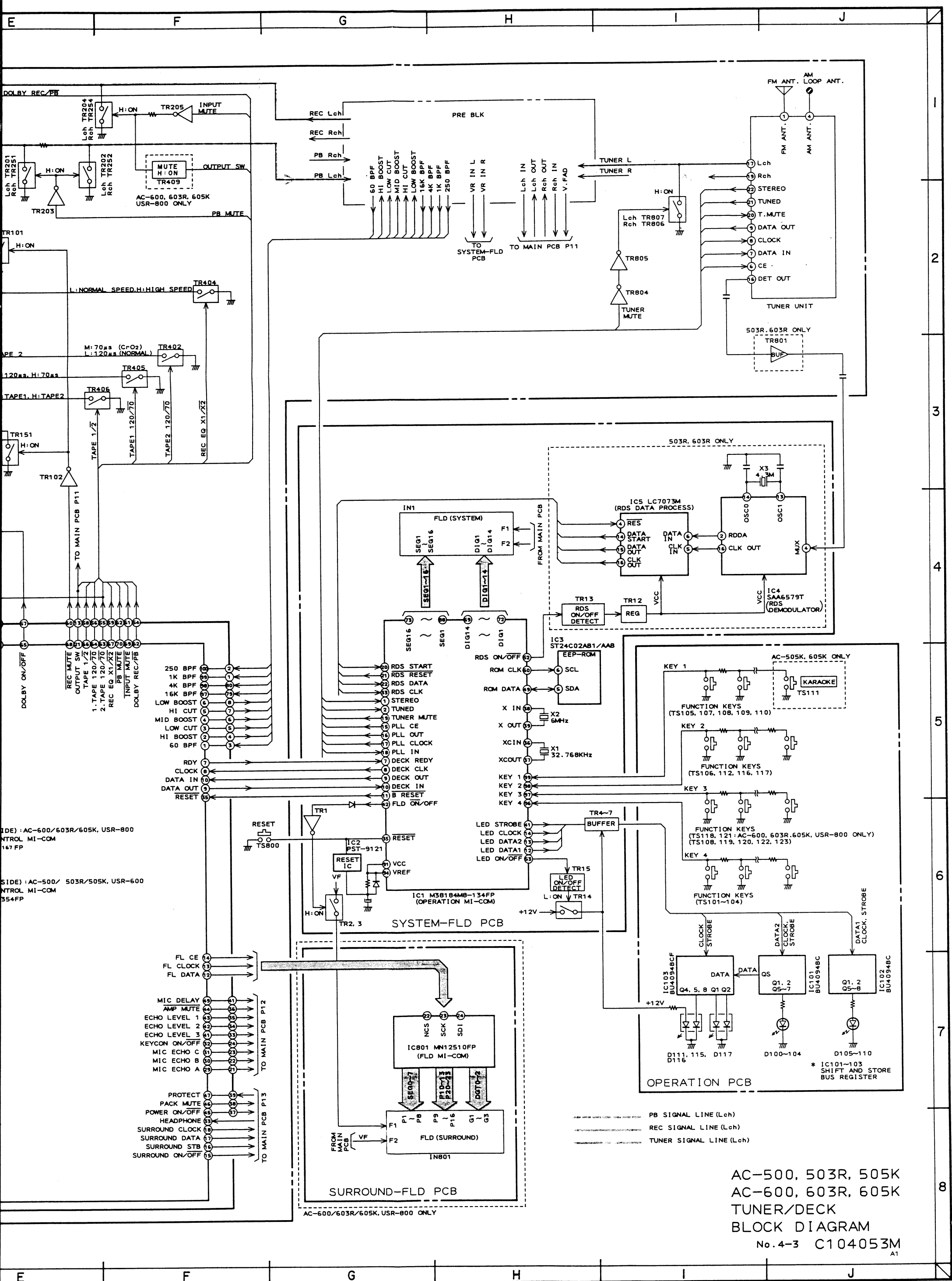


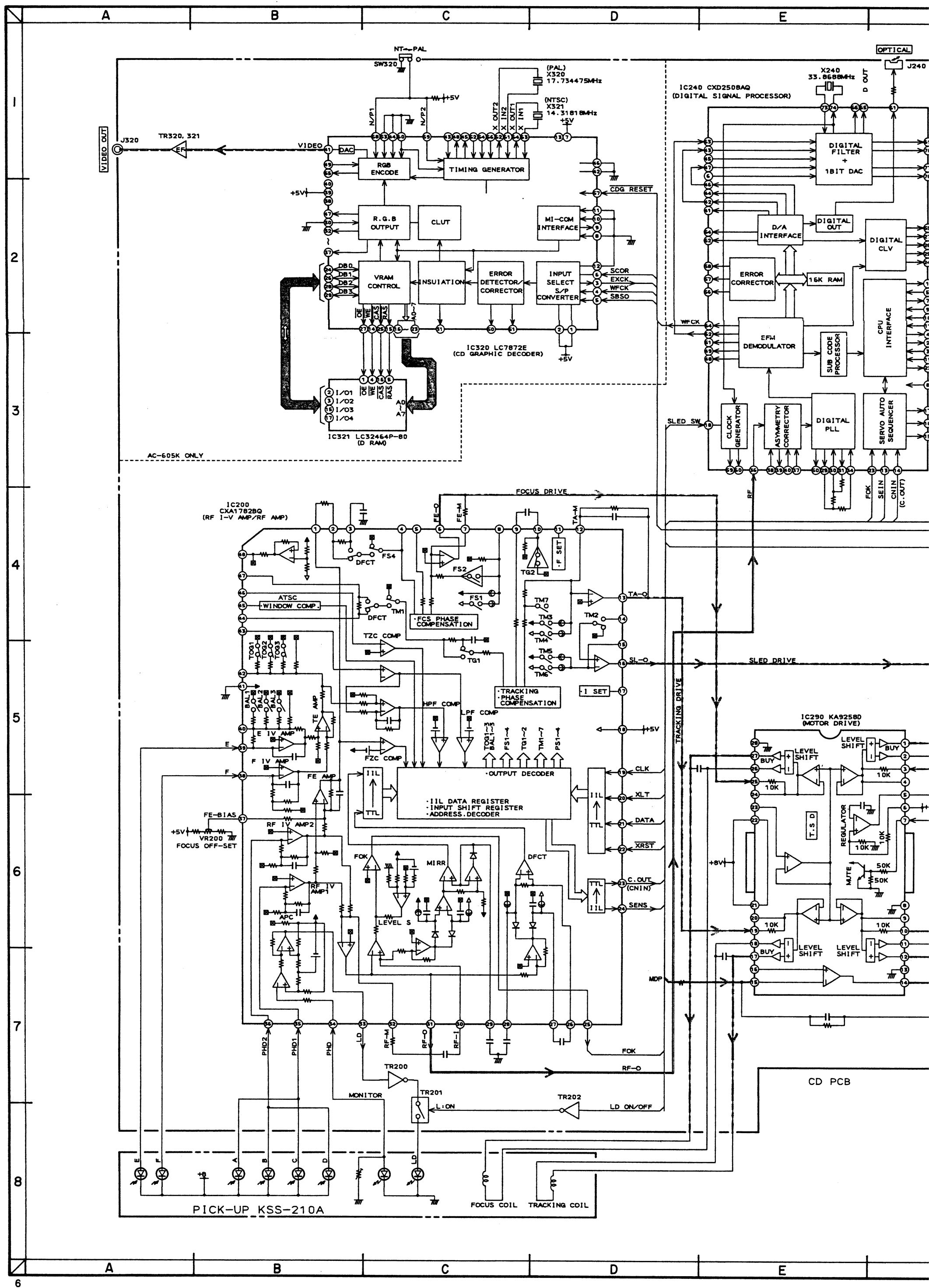
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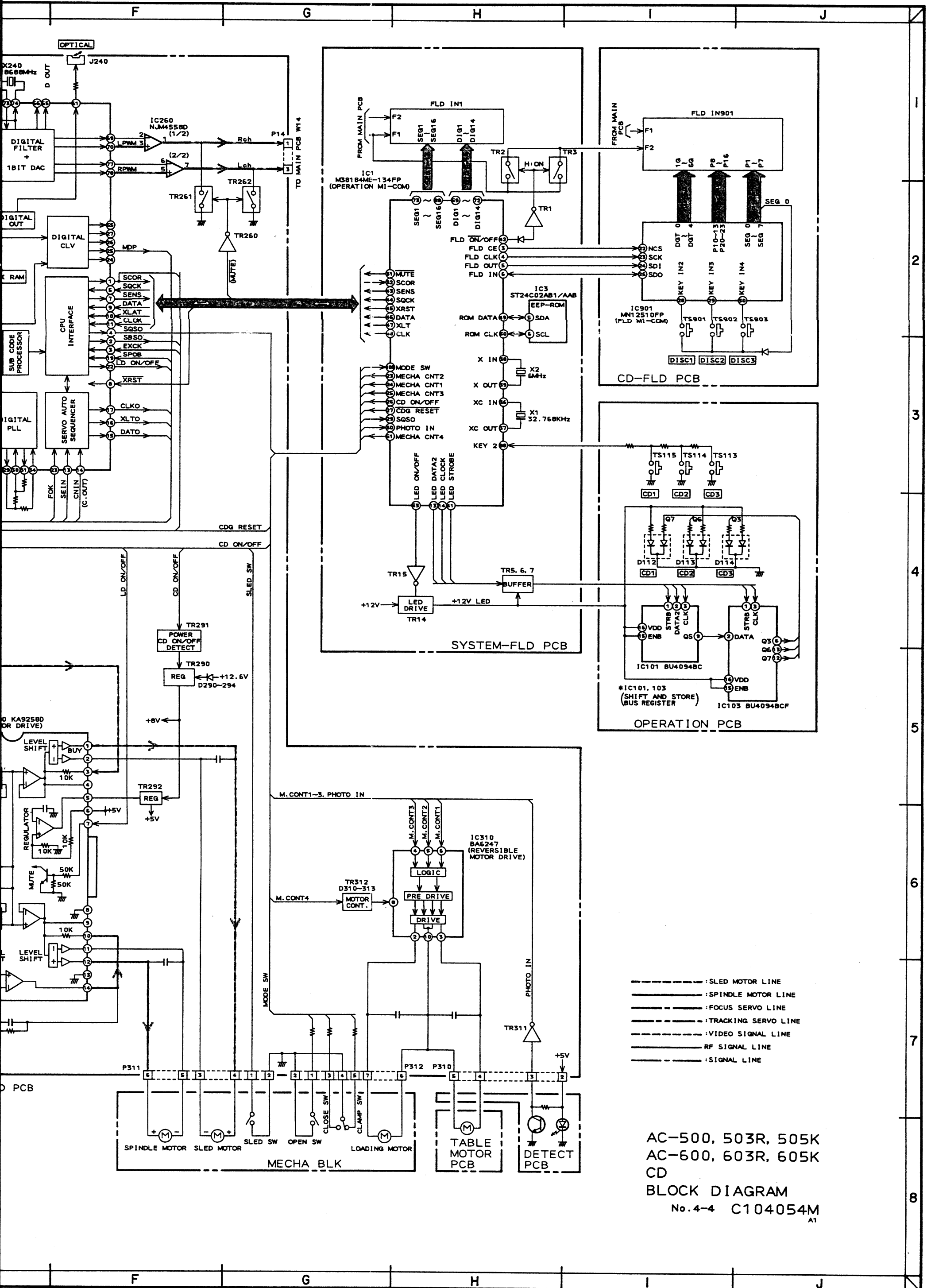


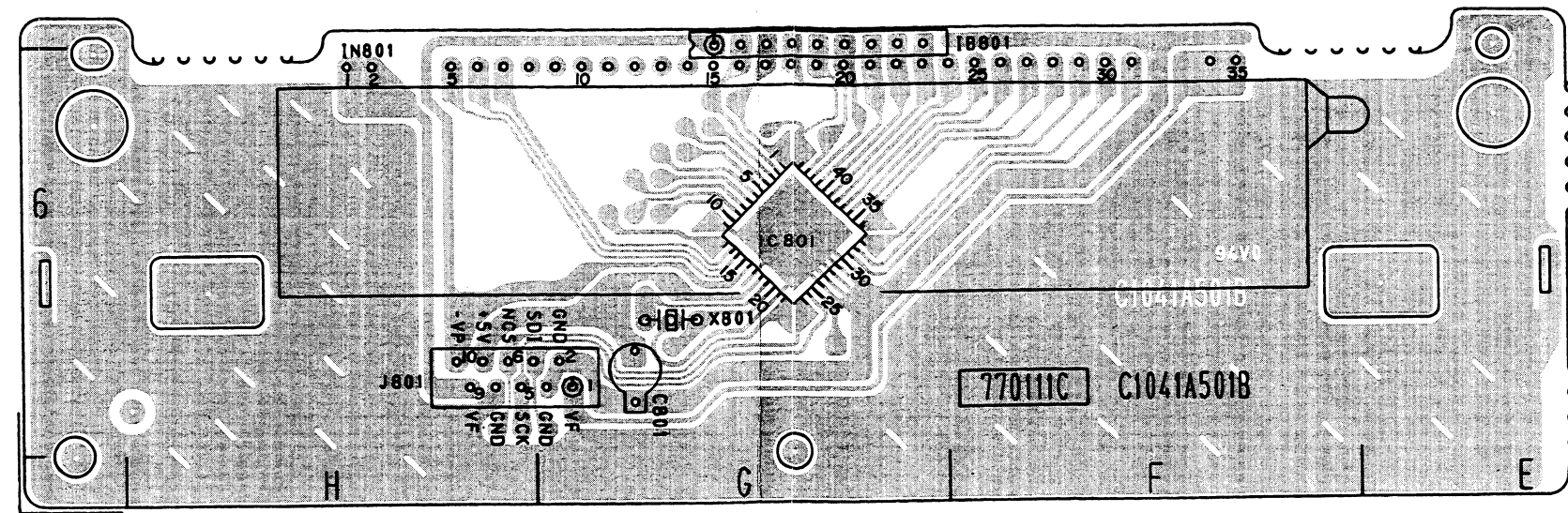
AC-600, 603R, 605K
MAIN
BLOCK DIAGRAM
No. 4-2 C104052M
A1



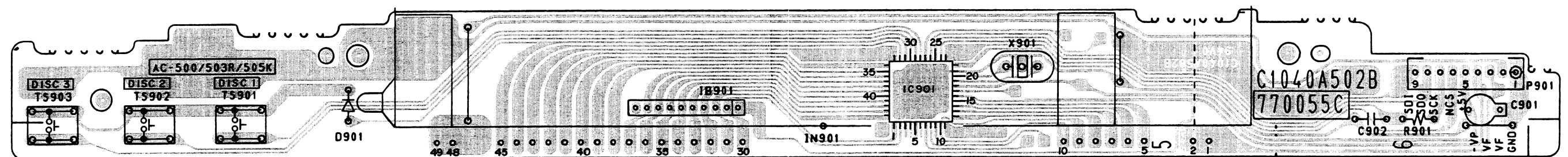




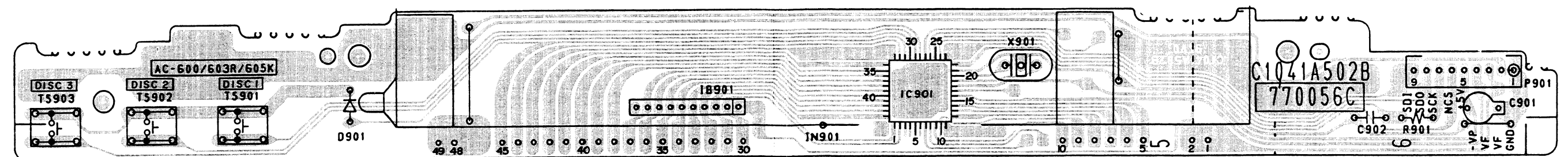




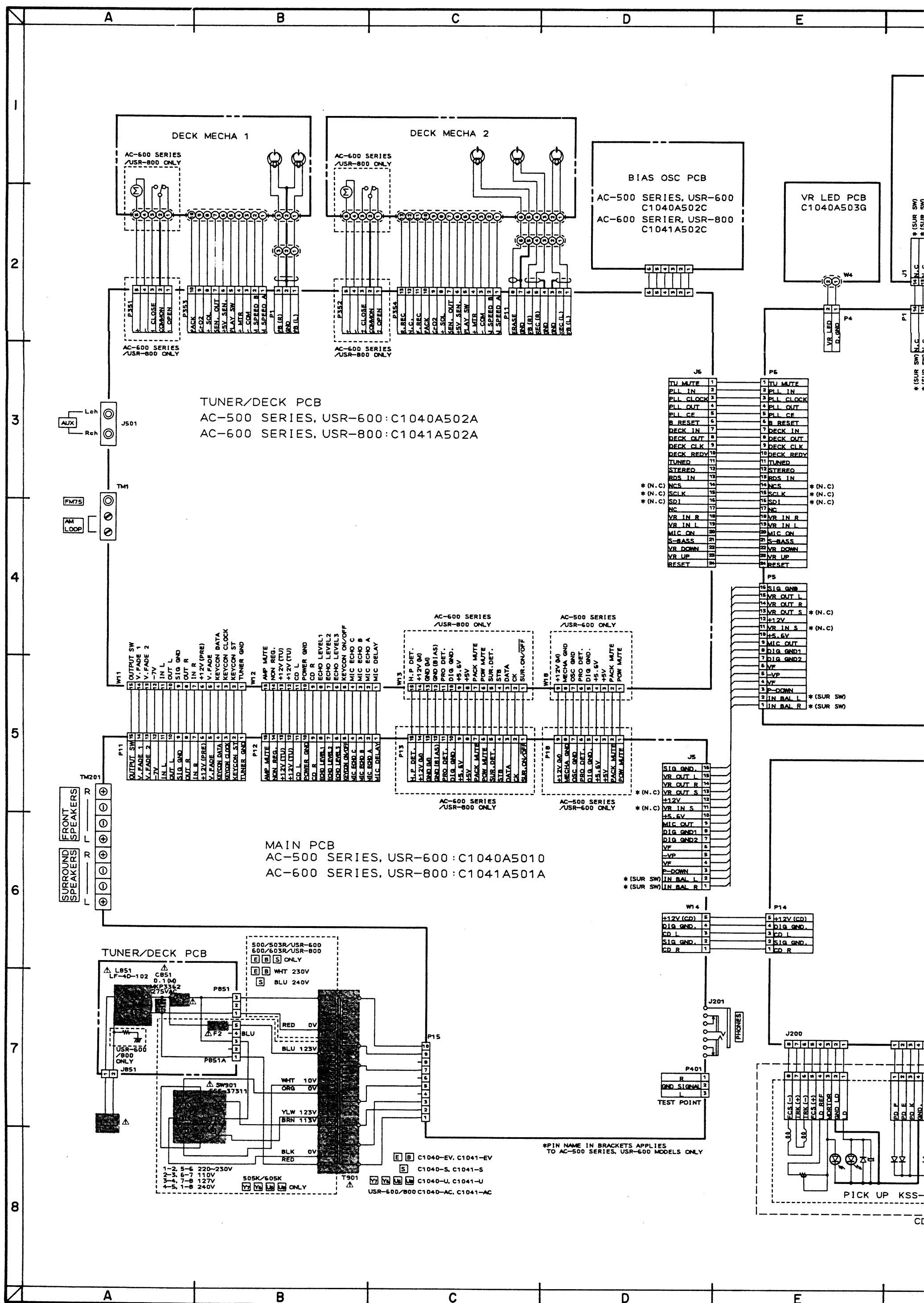
SURROUND - FLD PCB C1041A501B

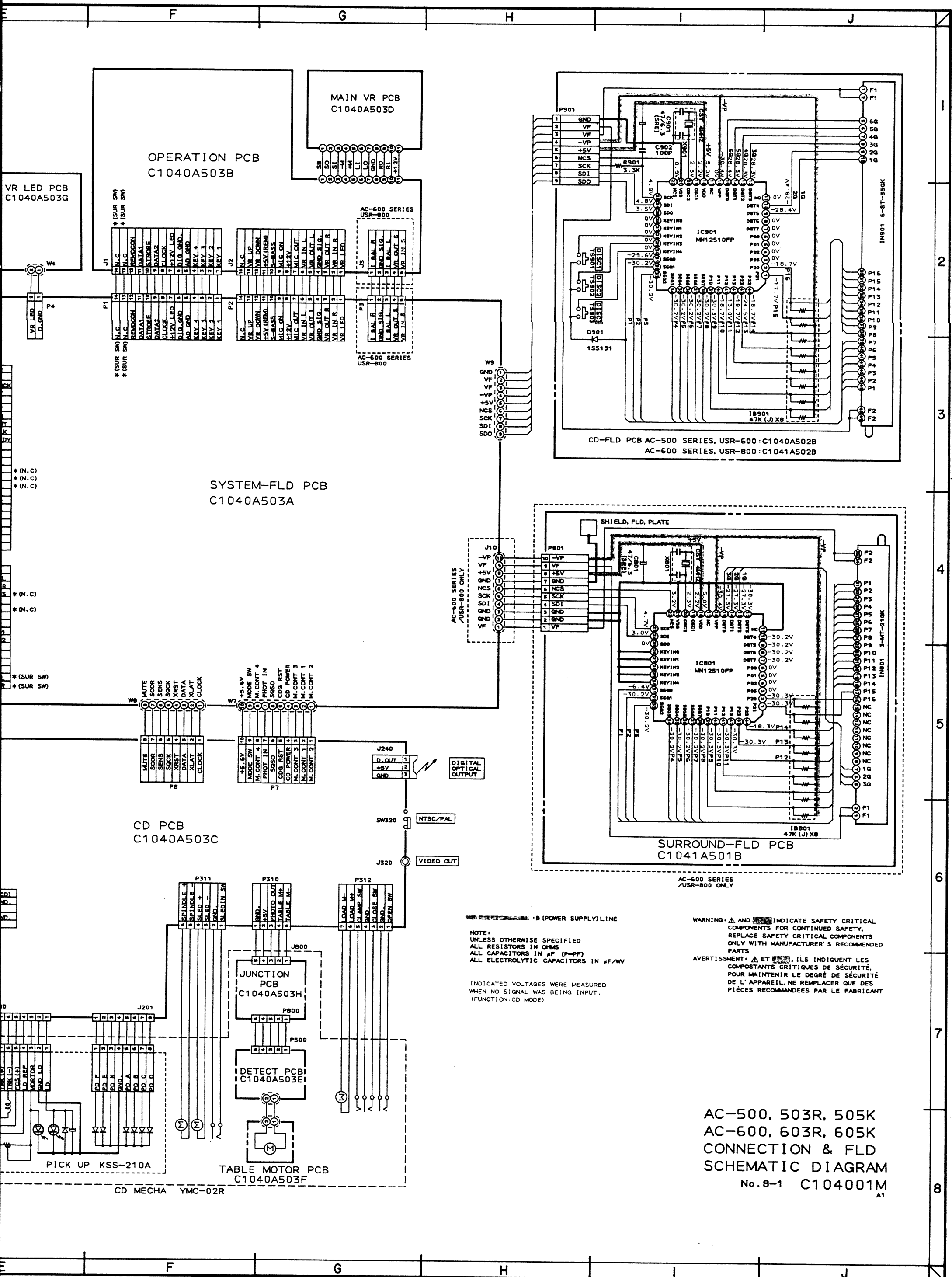


CD-FLD PCB C1040A502B



CD-FLD PCB C1041A502B



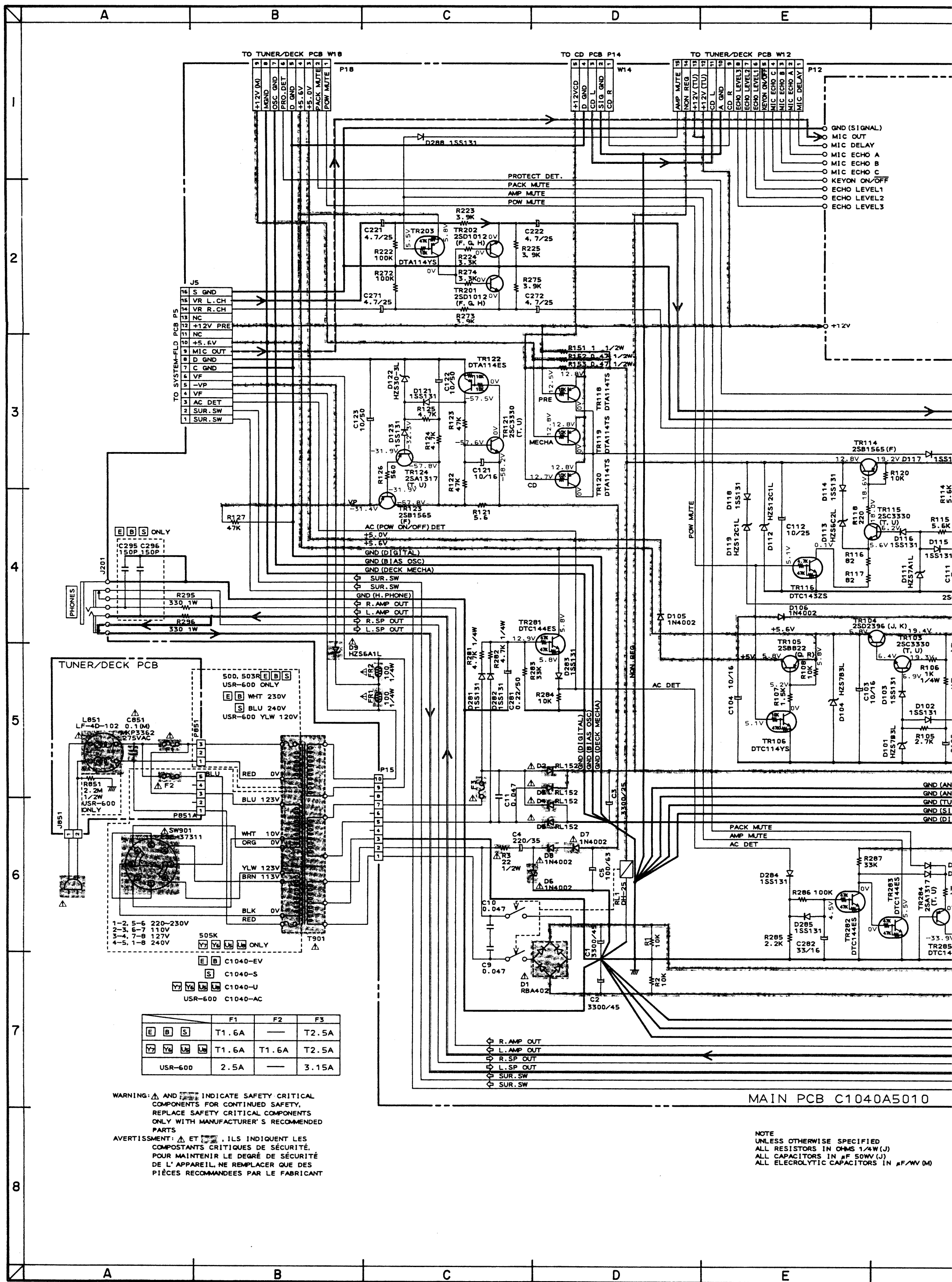


NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μ F (P-PF)
ALL ELECTROLYTIC CAPACITORS IN μ F/VV

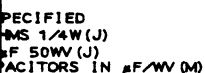
INDICATED VOLTAGES WERE MEASURED
WHEN NO SIGNAL WAS BEING INPUT.
(FUNCTION: CD MODE)

WARNING: Δ AND $\square$ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSEMENT: Δ ET $\square$ ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

AC-500, 503R, 505K
AC-600, 603R, 605K
CONNECTION & FLD
SCHEMATIC DIAGRAM
No. 8-1 C104001M
A1



(SIGNAL)
OUT
DELAY
ECHO A
ECHO B
ECHO C
ON ON/OFF
O LEVEL1
O LEVEL2
O LEVEL3



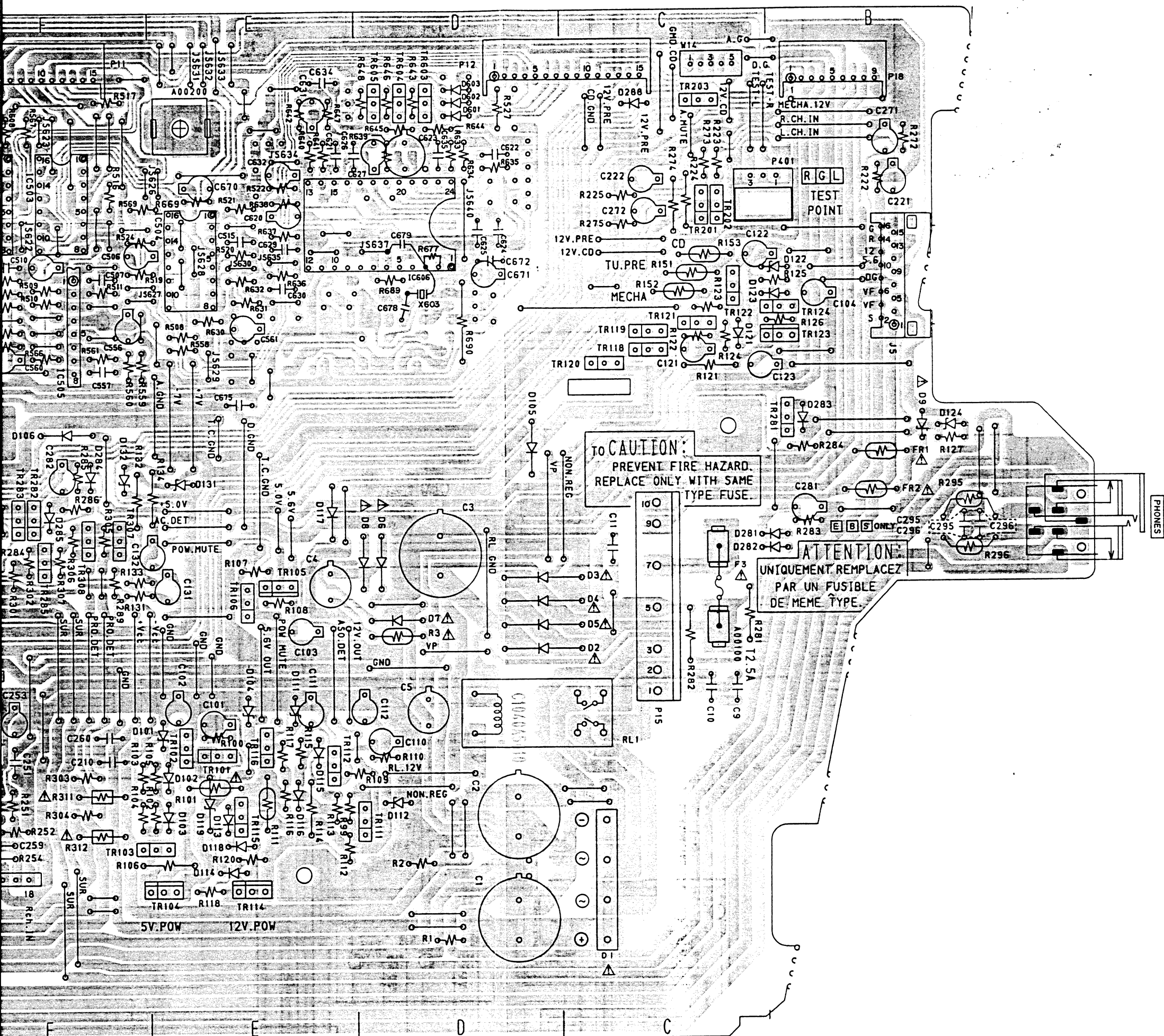
INDICATED VOLTAGES WERE MEASURED
WHEN NO SIGNAL WAS BEING INPUT.
(FUNCTION:CD MODE)

..... : B (POWER SUPPLY) LINE
 _____ : Lch AUDIO SIGNAL LINE
 - - - - - : MIC SIGNAL LINE

AC-500, 503R, 505K
MAIN (1/2)
(POWER SUPPLY
& POWER AMP BLK)
SCHEMATIC DIAGRAM
No. 8-2 C104002M

ICs	TR201.....	C1
IC1	TR202.....	C1
IC503	TR203.....	C1
IC504	TR281.....	B2
IC505	TR282.....	F3
IC506	TR283.....	F3
IC602	TR284.....	F3
IC603	TR285.....	F3
IC604	TR301.....	G3
IC605	TR302.....	G3
IC606	TR303.....	G3
IC607	TR304.....	G3
	TR305.....	G3
	TR306.....	G3
	TR307.....	F3
	TR308.....	F3
	TR603.....	D1
	TR604.....	D1
	TR605.....	D1
TRANSISTORS		
TR101		
TR102		
TR103		
TR104		
TR105		
TR106		
TR111		
TR112		
TR114		
TR115		
TR116		
TR118		
TR119		
TR120		
TR121		
TR122		
TR123		
TR124		
	CONNECTORS	
	J5	B2
	J201	B3
	P11	F1
	P12.....	C,D1
	P15.....	C3
	P18.....	B1
	P401	B,C1
	WIRES	
	W14	C1



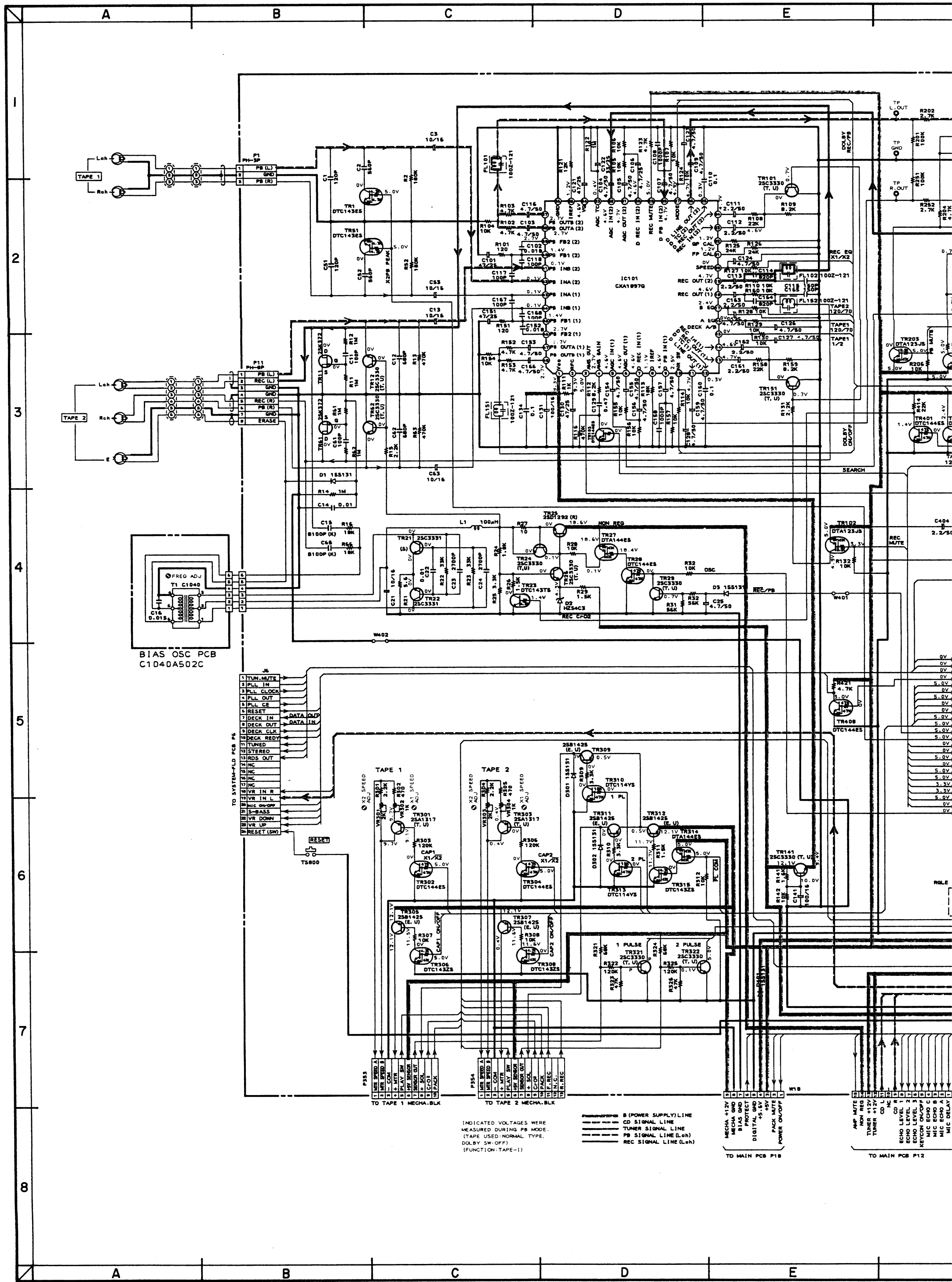


MAIN PCB CIO40A5010

WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

NOTE: PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.



BIAS OSC PCB
C1040A502C

- TO SYSTEM-FLD PCB P2
- 1 TUN. MUTE
 - 2 PLL IN
 - 3 PLL CLOCK
 - 4 PLL OUT
 - 5 PLL CE
 - 6 RESET
 - 7 DECK IN
 - 8 DECK OUT
 - 9 DECK CLK
 - 10 DECK REDY
 - 11 TUNED
 - 12 STEREO
 - 13 RDS OUT
 - 14 NC
 - 15 NC
 - 16 NC
 - 17 VR IN R
 - 18 VR IN L
 - 19 MIC ON/OFF
 - 20 S-BASS
 - 21 VR DOWN
 - 22 VR UP
 - 23 RESET (SW)

TAPE 1

TAPE 2

TO TAPE 1 MECHA. BLK

TO TAPE 2 MECHA. BLK

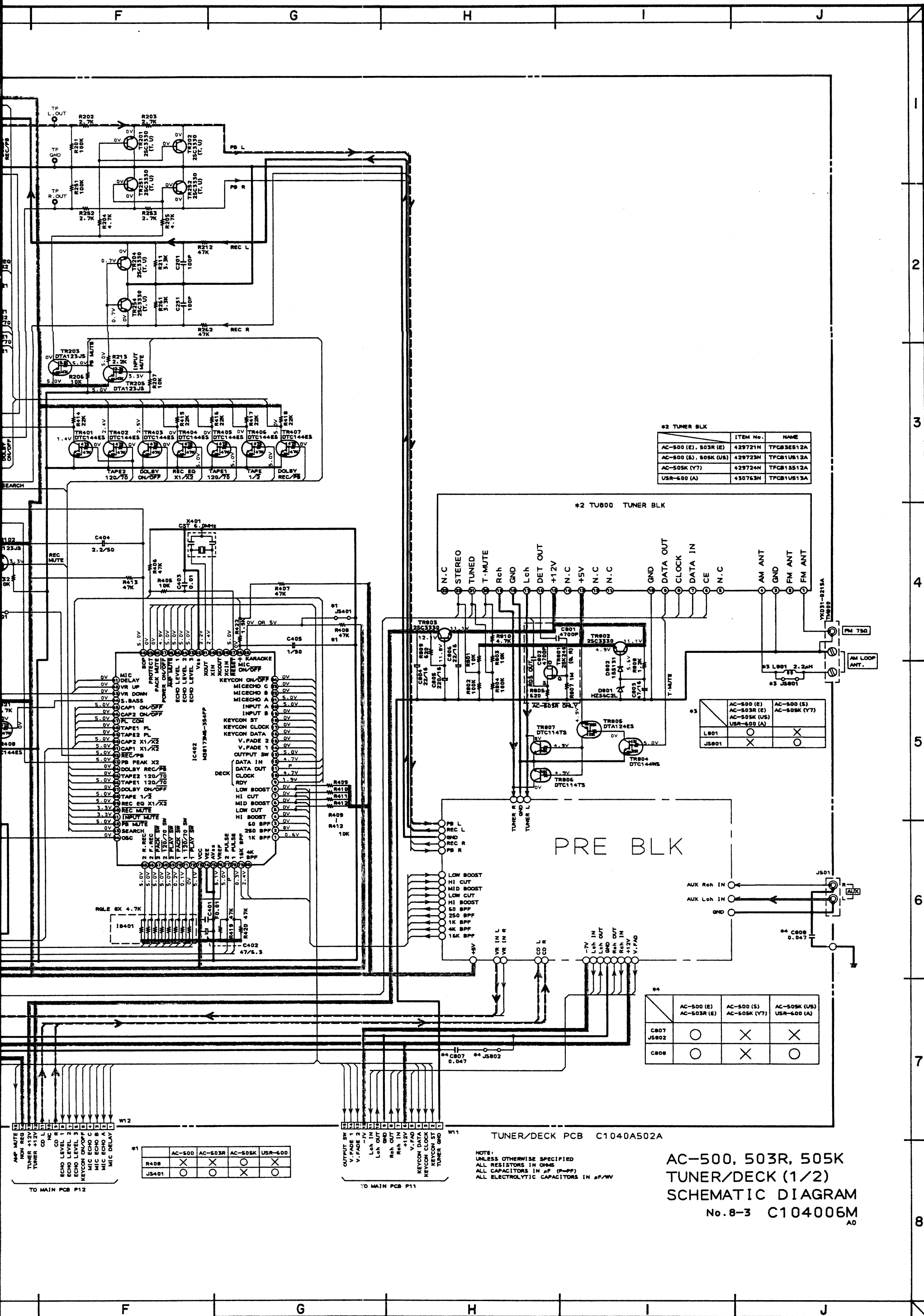
INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
(TAPE USED: NORMAL TYPE.
DOLBY SW: OFF)
(FUNCTION: TAPE-1)

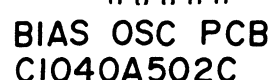
- POWER SUPPLY LINE
- CD SIGNAL LINE
- TUNER SIGNAL LINE
- PB SIGNAL LINE (Leh)
- REC SIGNAL LINE (Leh)

MECHA +12V
MECHA GND
BIAS GND
PROTECT
DIGITAL GND
+5V
PACK MUTE
POWER ON/OFF

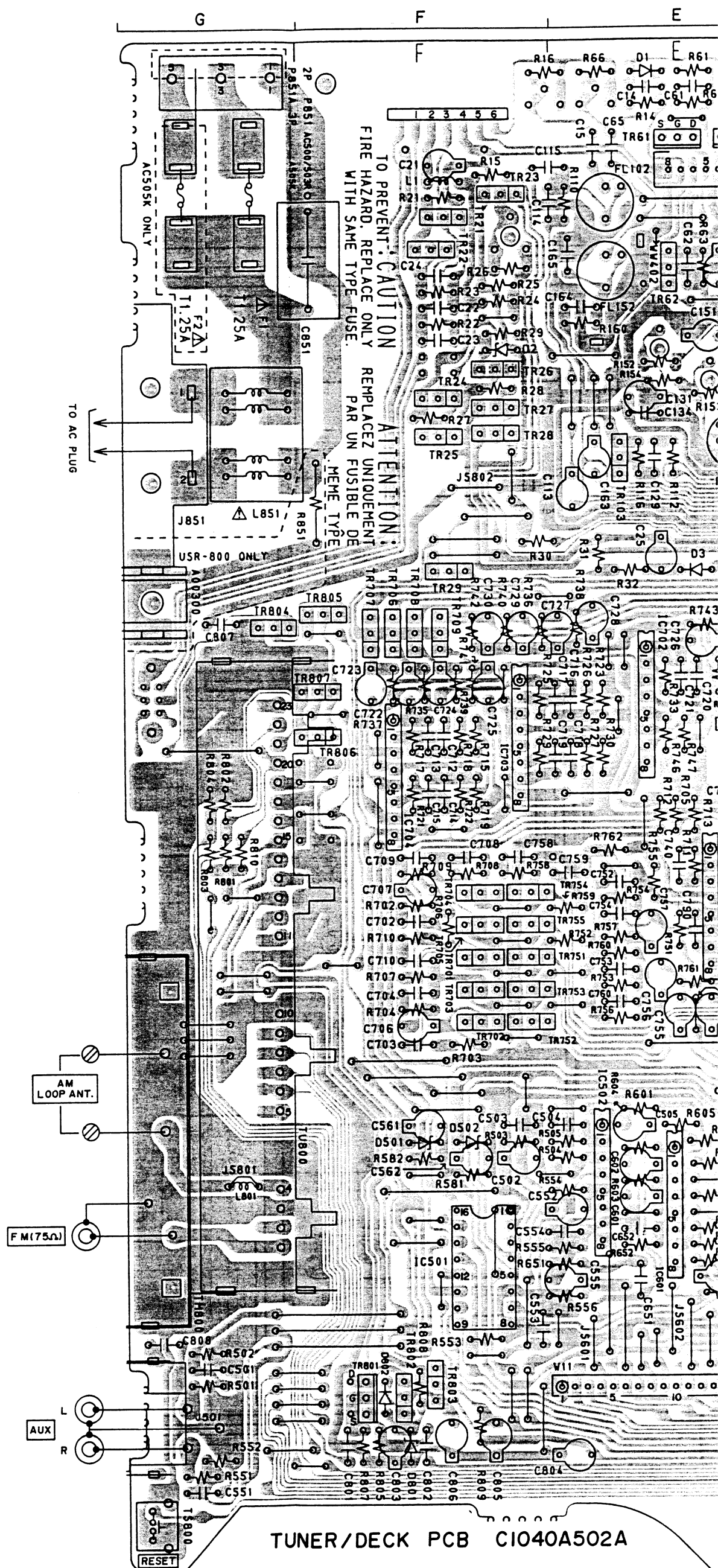
AMP MUTE
NON REG
TUNER +12V
CD L
NE R
ECHO LEVEL 1
ECHO LEVEL 2
KEYCON ON/OFF
MIC ECHO C
MIC ECHO B
MIC ECHO A
MIC DELAY

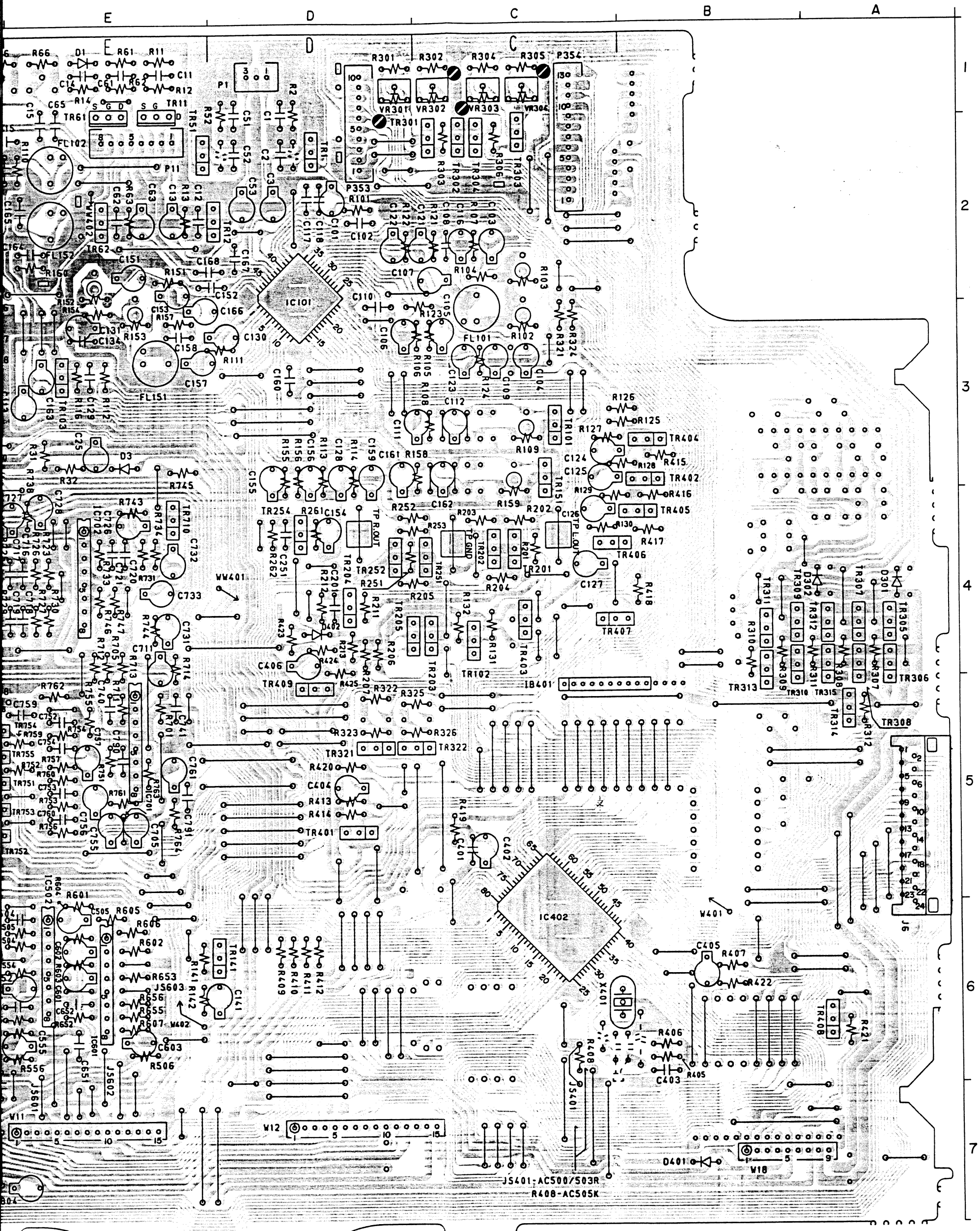
TO MAIN PCB P12





ICs		TR252	D4
IC101	D2,3	TR254	D4
IC402	C5,6	TR301	C2
IC501	F6,7	TR302	C2
IC502	E6	TR303	C2
IC601	E6	TR304	C2
IC701	E5	TR305	A4
IC702	E4	TR306	A4,5
IC703	F4	TR307	A4
IC704	F4,5	TR308	A4,5
WIRES		TR309	B4
W11	E7	TR310	B4,5
W12	D7	TR311	B4
W18	B7	TR312	B4
CONNECTORS		TR313	B4,5
J6	A5,6	TR314	A5
P1	D1	TR315	B4,5
P11	E2	TR321	D5
P353.....	D1,2	TR322	C5
P354.....	C1,2	TR401	D5
P851.....	G1	TR402	B3,4
TRANSISTORS		TR403	C4
TR1	D2	TR404	B3
TR11	E1,2	TR405	B4
TR12	D2	TR406	B,C4
TR21	F2	TR407	B,C4
TR22	F2	TR408	A,B6
TR23	F2	TR409	D4,5
TR24	F3	TR701	F5
TR25	F3	TR702	F5
TR26	F2,3	TR703	F5
TR27	F3	TR704	F5
TR28	F3	TR705	F5
TR29	F3,4	TR706	F4
TR51	D,E2	TR707	F4
TR61	E1,2	TR708	F4
TR62	E2	TR709	F4
TR101	C3	TR710	E4
TR102	C4	TR751	E,F5
TR103	E3	TR752	E,F5
TR141	D,E6	TR753	E,F5
TR151	C3,4	TR754	E,F5
TR201	C4	TR755	E,F5
TR202	C4	TR801	F7
TR203	C4	TR802	F7
TR204	D4	TR803	F7
TR205	D4	TR804	G4
TR251	D4	TR805	F4
		TR806	F,G4
		TR807	F,G4



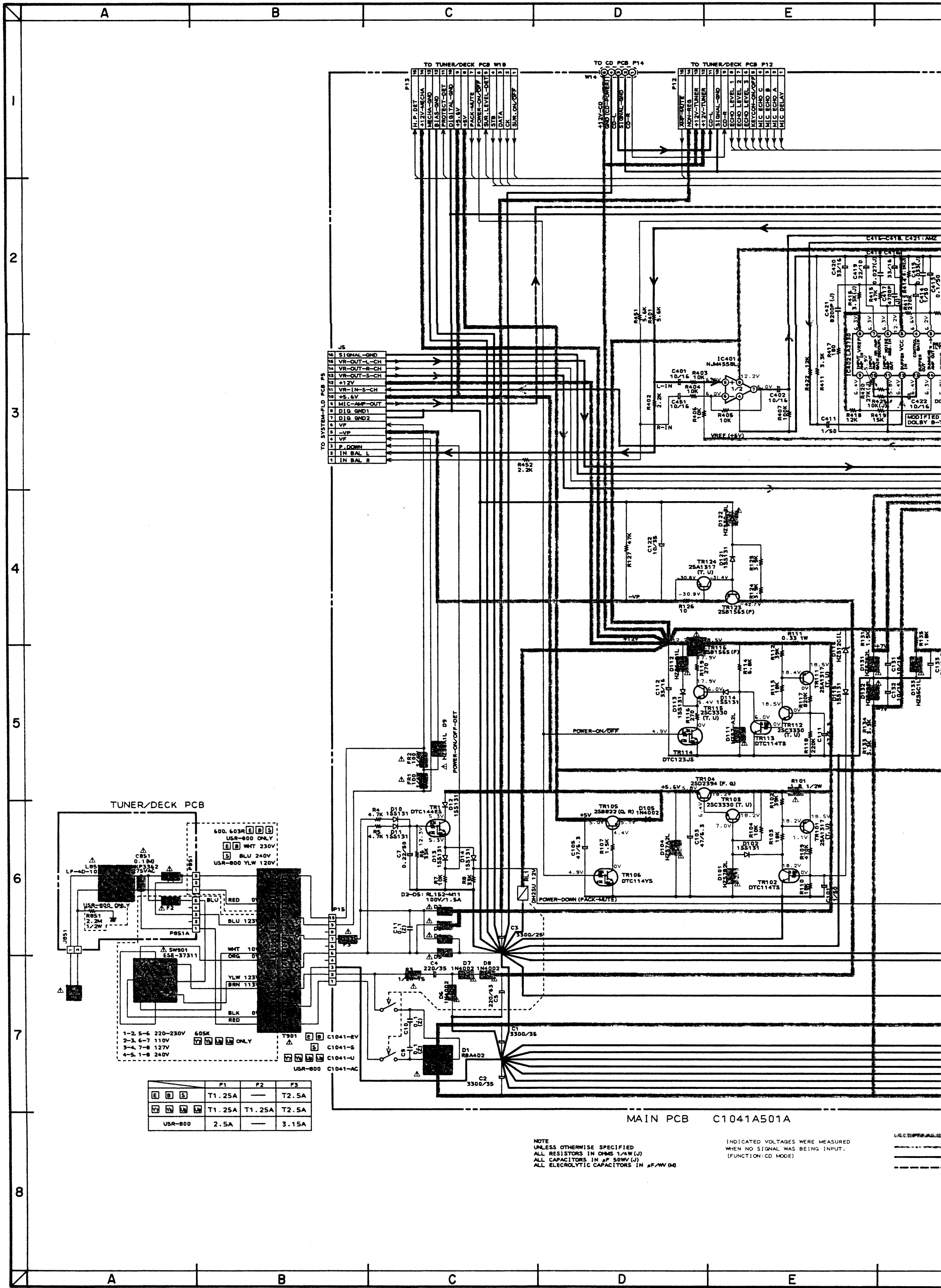


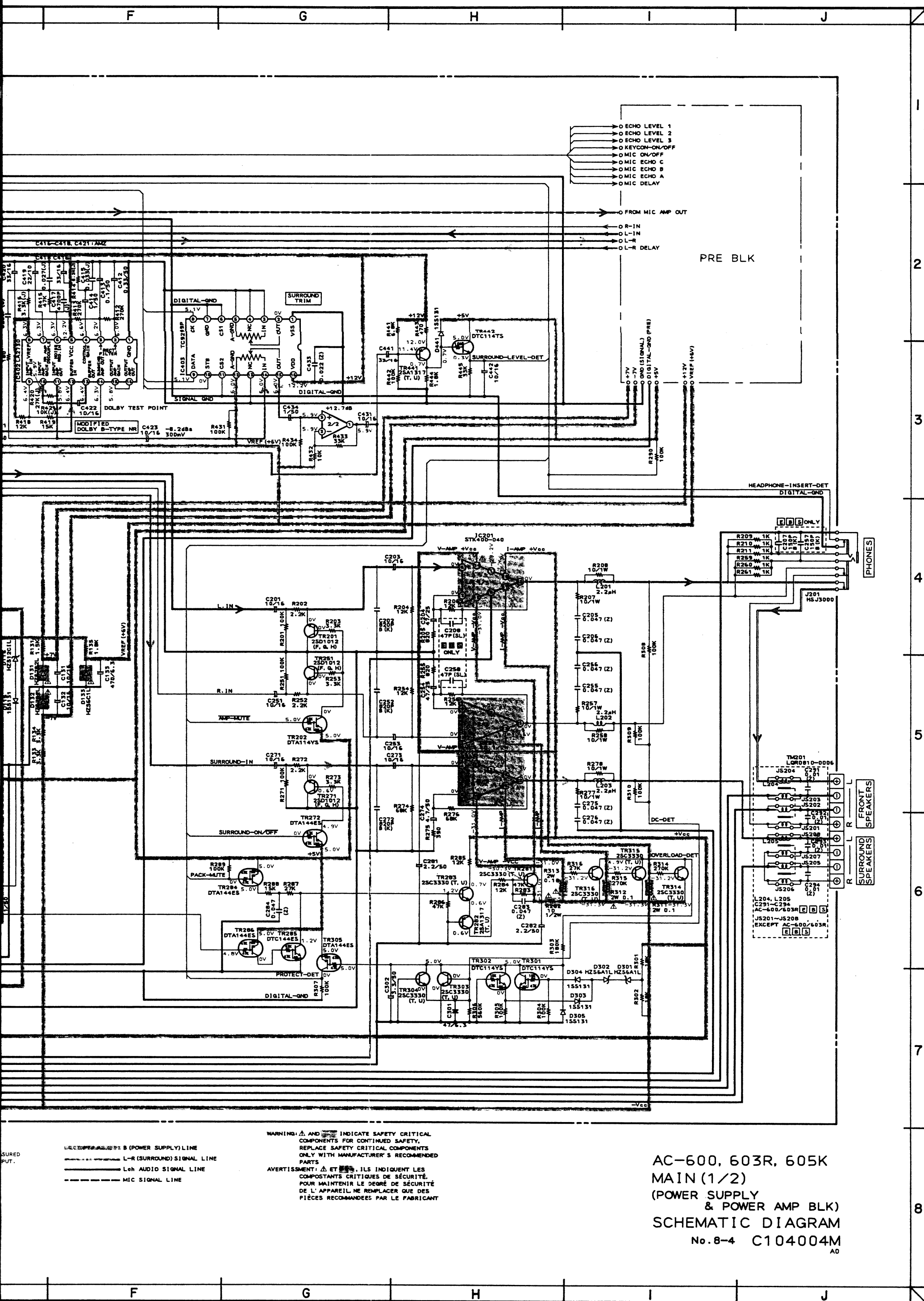
OA502A

WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

NOTE: PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

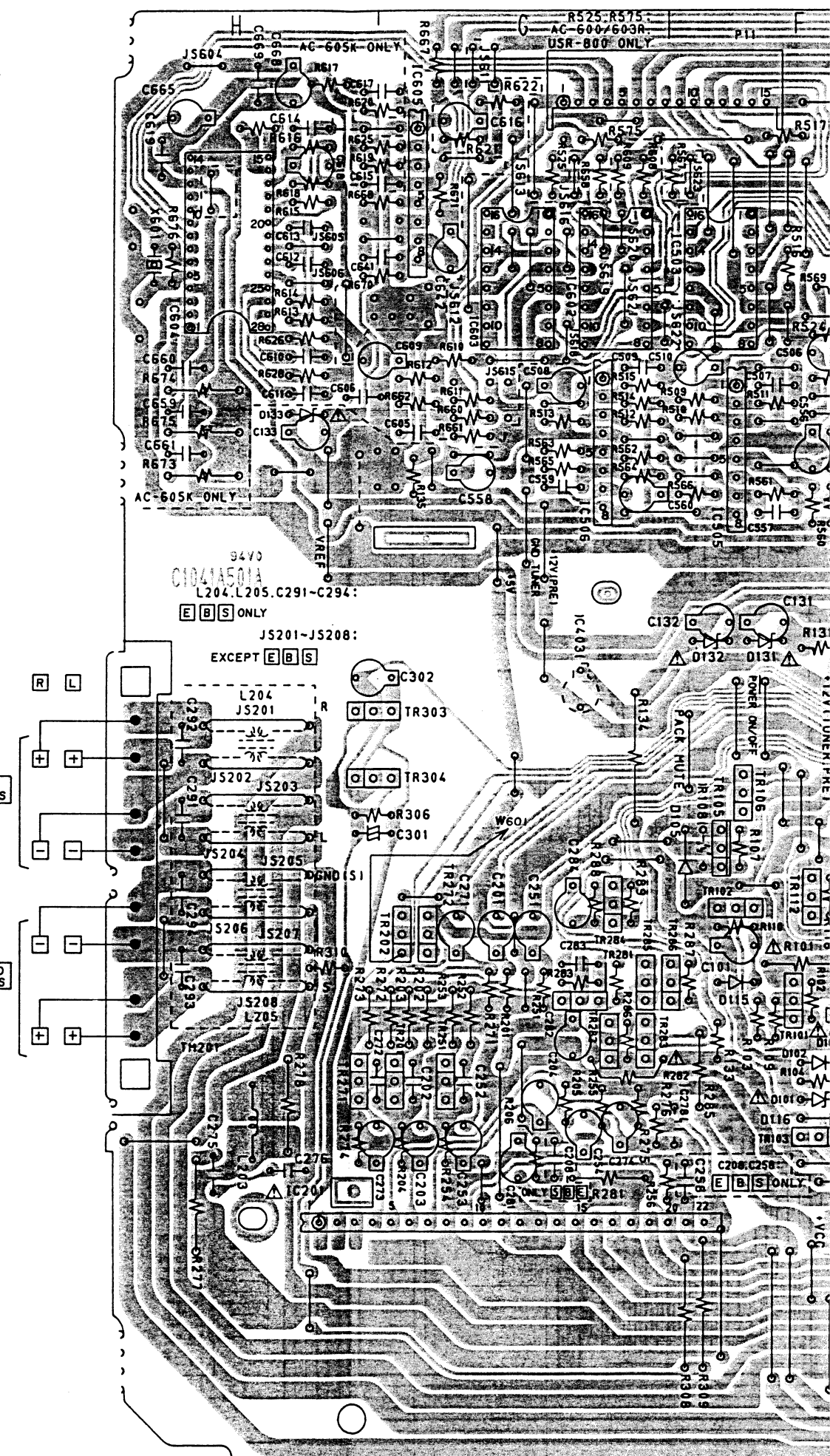


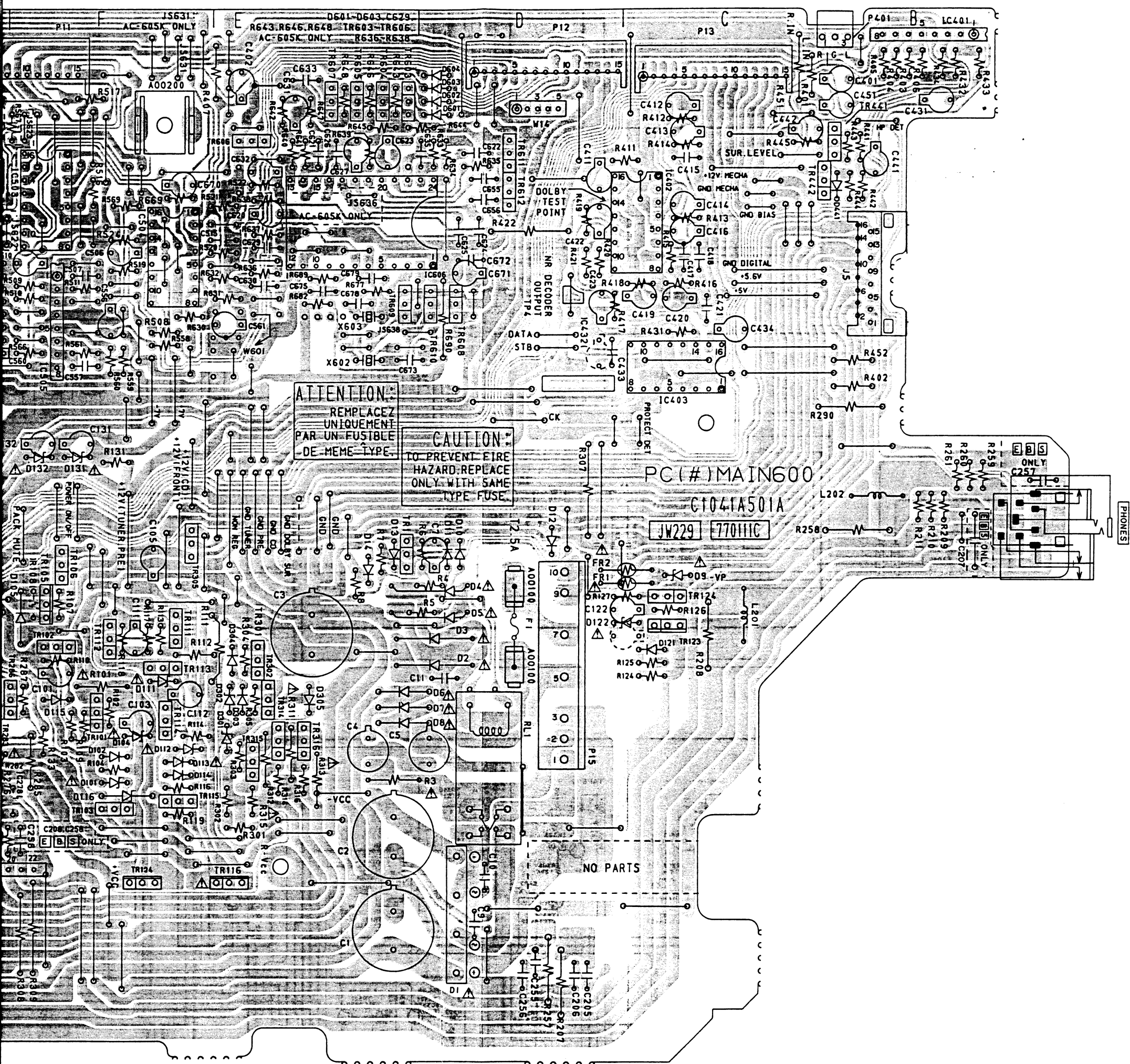


PRINCIPAL PARTS LOCATION

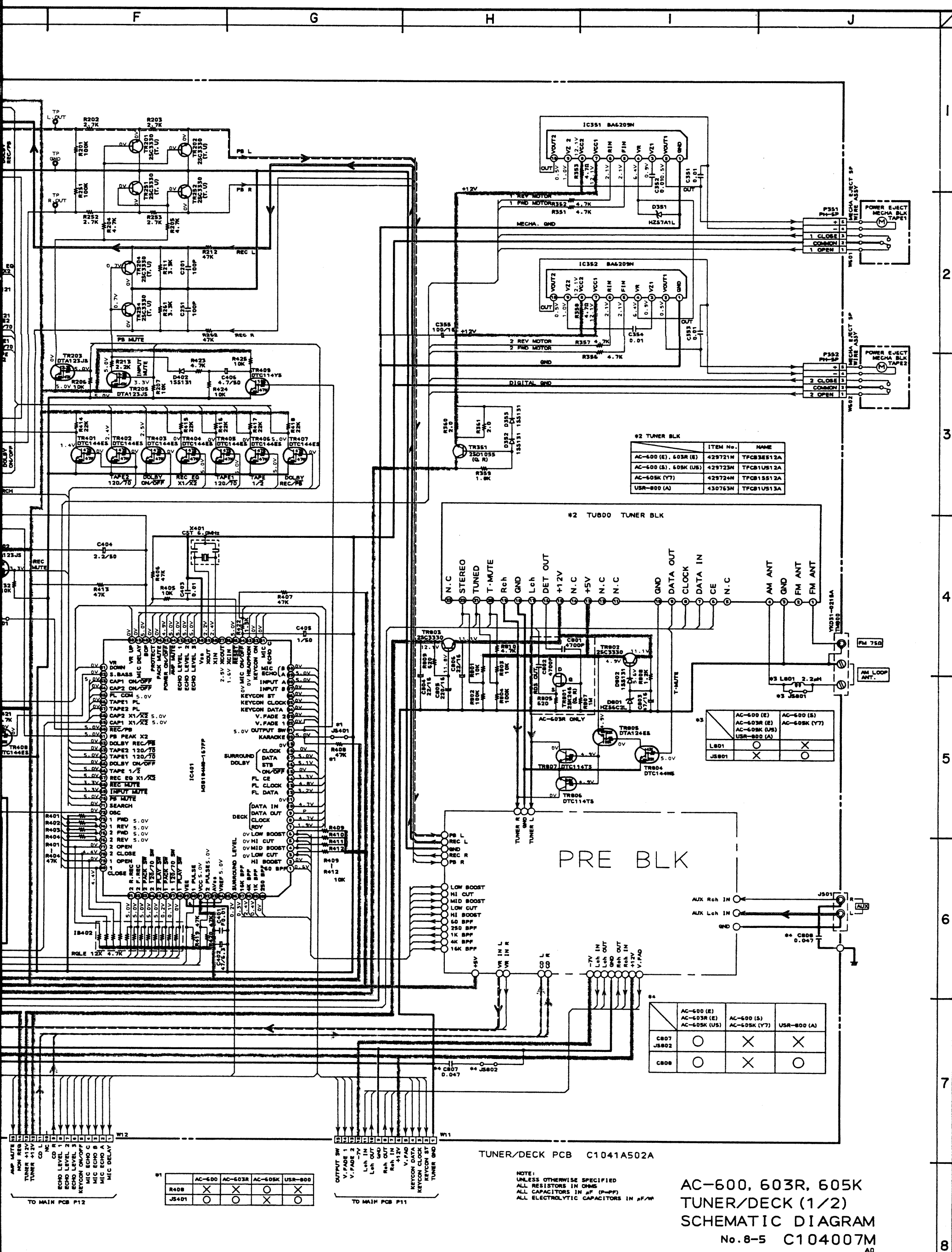
ICs		TR282.....	G4,5
IC201	H,G5	TR283.....	G4,5
IC401	B1	TR284.....	G4
IC402	C2	TR285.....	G4
IC403	C2,3	TR286.....	G4
IC503	F1,2	TR301.....	E4
IC504	F2	TR302.....	E4
IC505	F2	TR303.....	H3
IC506	G2	TR304.....	H3,4
IC602	G1,2	TR305.....	F3,4
IC603	G1,2	TR314.....	E4,5
IC604	H1,2	TR315.....	E5
IC605	G1	TR316.....	E4,5
IC606	E2	TR441.....	B1
TRANSISTORS		TR442.....	C1,2
TR1	E3,4	TR603.....	E1
TR101	F4	TR604.....	E1
TR102	F4	TR605.....	E1
TR103	F5	TR606.....	E1
TR104	F5	TR607.....	E1
TR105	F4	TR608.....	D2
TR106	F4	TR609.....	E2
TR111	F4	TR610.....	D2
TR112	F4	TR611.....	D1
TR113	F4	TR612.....	D1,2
TR114	F4	CONNECTORS	
TR115	F5	J5	B2
TR116	E5	J201	B3,4
TR123	C4	P11	G,F1
TR124	C4	P12	D1
TR201	H,G5	P13	C1
TR202	G4	P15	D4
TR251	G5	P401	B,C1
TR271	H5	WIRES	
TR272	G4	W14	D1
TR281	G4		

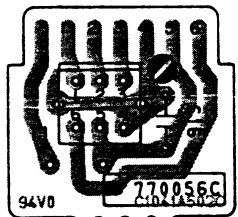
1
2
3
4
5





MAIN PCB C1041A501A

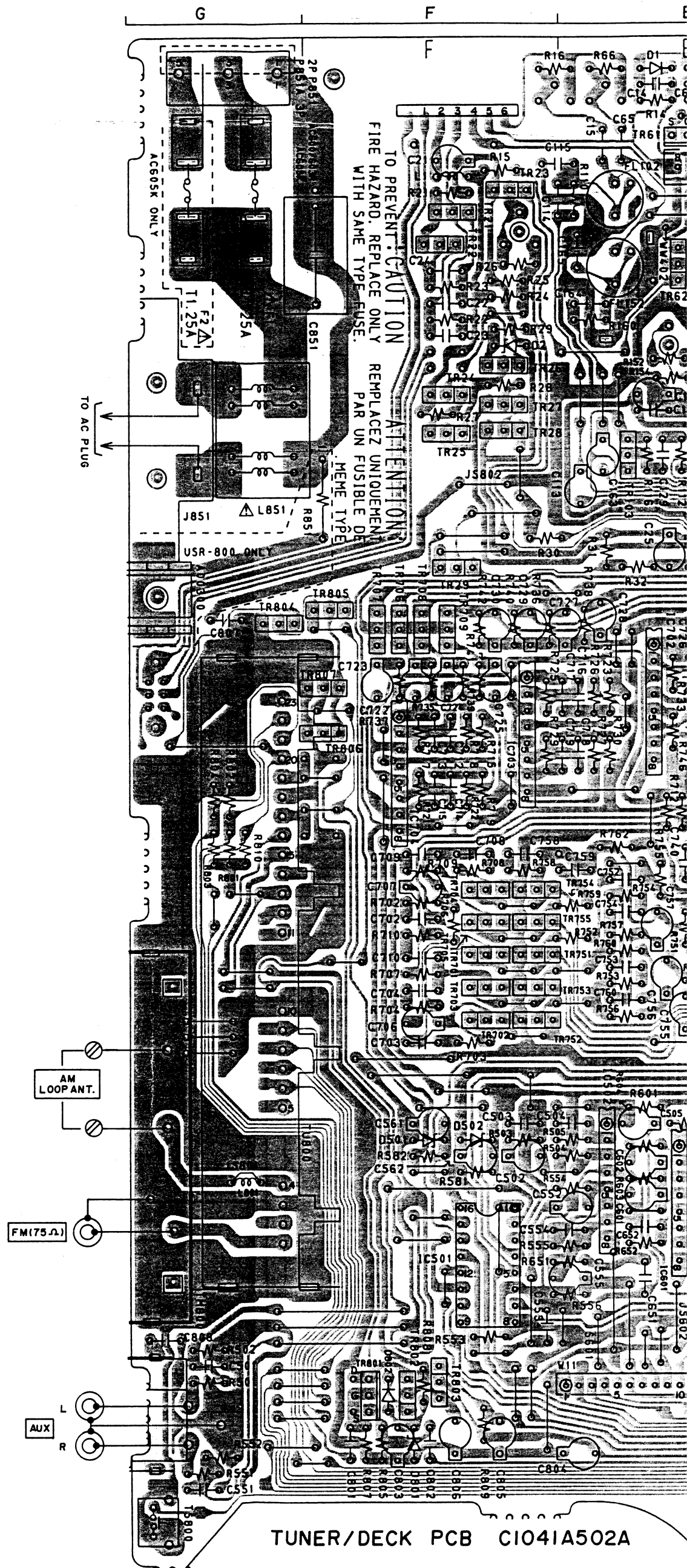




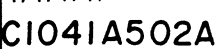
BIAS OSC PCB
CI041A502C

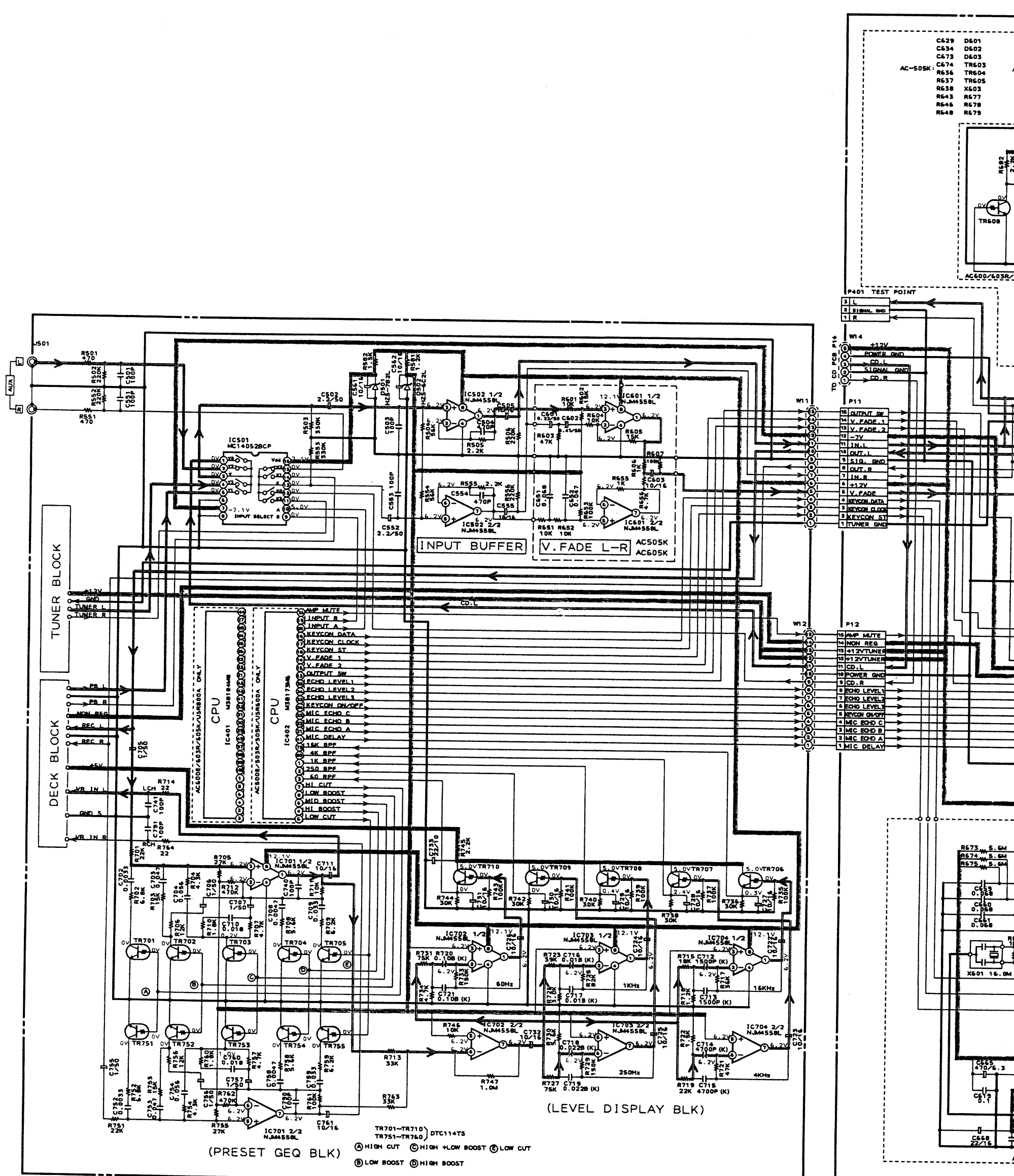
PRINCIPAL PARTS LOCATION

ICs		TR205	D4
IC101	D2,3	TR251	D4
IC351	A,B4	TR252	D4
IC352	A,B3	TR254	D4
IC401	C5,6	TR301	C2
IC501	F6,7	TR302	C2
IC502	E6	TR303	C2
IC601	E6	TR304	C2
IC701	E5	TR305	A4
IC702	E4	TR306	A4,5
IC703	F4	TR307	A4
IC704	F4,5	TR308	A4,5
WIRES		TR309	B4
W11	E7	TR310	B4,5
W12	D7	TR311	B4
W13	A,B7	TR312	B4
CONNECTORS		TR313	B4,5
J6	A5,6	TR314	A5
P1	D1	TR315	B4,5
P11	E2	TR321	D5
P351	B1,2	TR322	C5
P352	B,C2	TR351	B4
P353	D1,2	TR401	D5
P354	C1,2	TR402	B3,4
P851	G1	TR403	C4
TRANSISTORS		TR404	B3
TR1	D2	TR405	B4
TR11	E1,2	TR406	B,C4
TR12	D2	TR407	B,C4
TR21	F2	TR408	A,B6
TR22	F2	TR409	D4,5
TR23	F2	TR701	F5
TR24	F3	TR702	F5
TR25	F3	TR703	F5
TR26	F2,3	TR704	F5
TR27	F3	TR705	F5
TR28	F3	TR706	F4
TR29	F3,4	TR707	F4
TR51	D,E2	TR708	F4
TR61	E1,2	TR709	F4
TR62	E2	TR710	E4
TR101	C3	TR751	E,F5
TR102	C4	TR752	E,F5
TR103	E3	TR753	E,F5
TR141	D,E6	TR754	E,F5
TR151	C3,4	TR755	E,F5
TR201	C4	TR801	F7
TR202	C4	TR802	F7
TR203	C4	TR803	F7
TR204	D4	TR804	G4
		TR805	F4
		TR806	F,G4
		TR807	F,G4



TUNER/DECK PCB CI041A502A



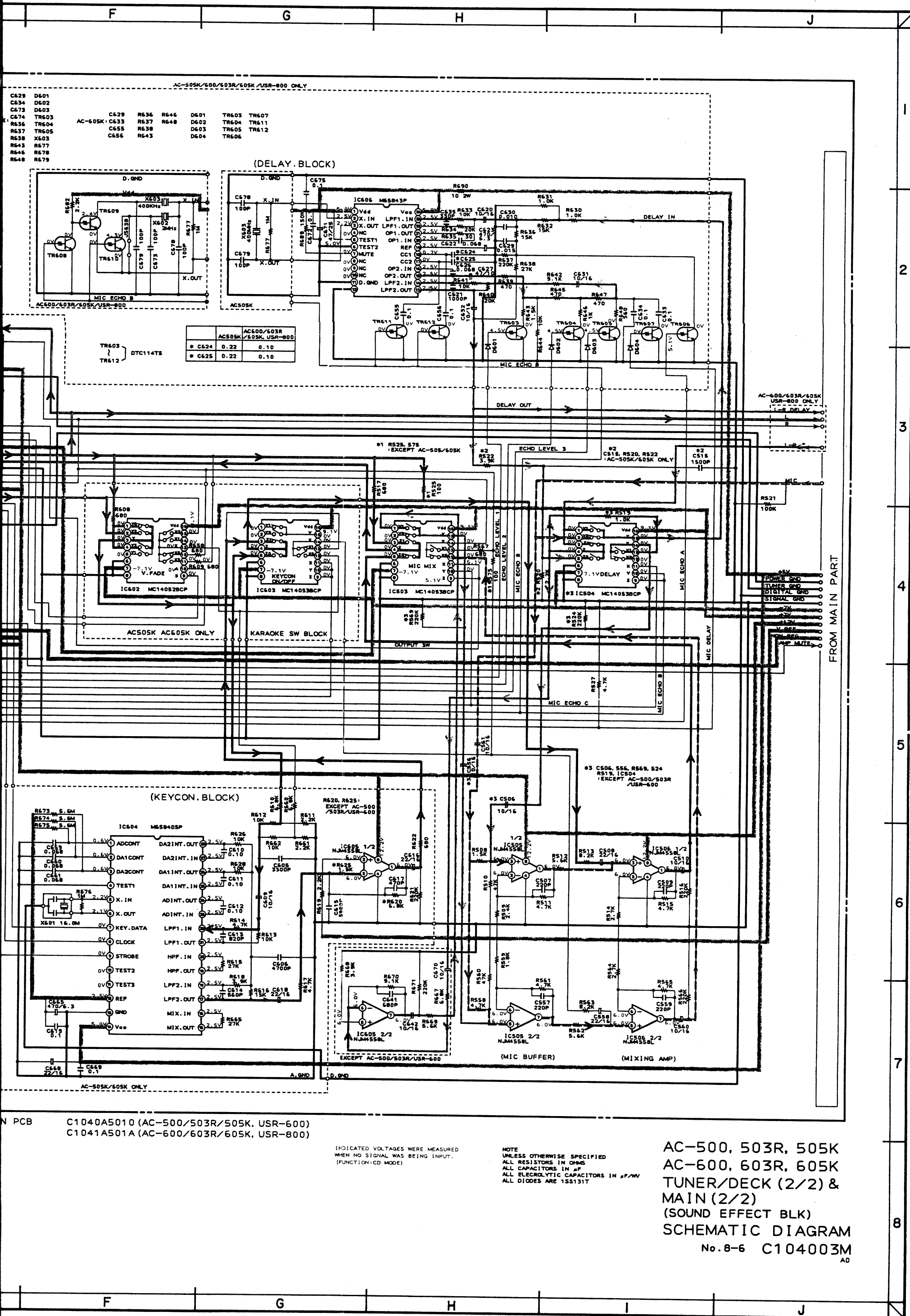


TUNER/DECK PCB C1040A502A (AC-500/503R/505K, USR-600)
 C1041A502A (AC-600/603R/605K, USR-800)

INDICATED VOLTAGES WERE MEASURED DURING PB MODE. (TAPE USED: NORMAL TYPE, DOLBY SW: OFF) (FUNCTION: TAPE-1)

——— B (POWER SUPPLY) LINE
 ——— L-R (SURROUND) SIGNAL LINE
 - - - MIC SIGNAL LINE
 ——— Lch AUDIO SIGNAL LINE

MAIN PCB C1040A502A (AC-500/503R/505K, USR-600)
 C1041A502A (AC-600/603R/605K, USR-800)



PRINCIPAL PARTS LOCATION

ICs

IC1	C4
IC2	B,C2
IC3	C2
IC4	B5
IC5	B6

TRANSISTORS

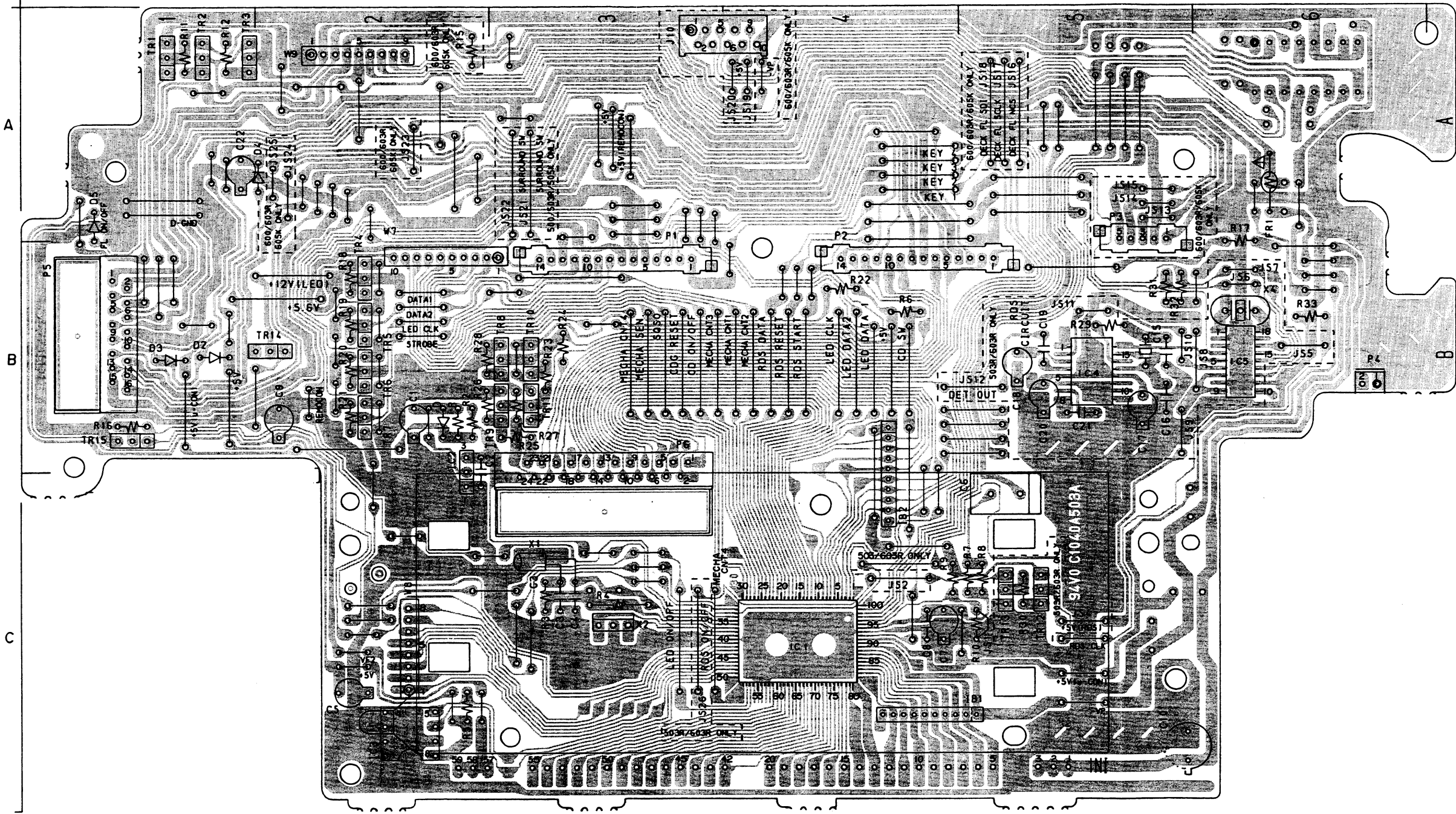
TR1	A1
TR2	A1
TR3	A1
TR4	B2
TR5	B2
TR6	B2
TR7	B2
TR8	B3
TR9	B3
TR10	B3
TR11	B3
TR12	C5
TR13	C5
TR14	B2
TR15	B1

CONNECTORS

J10	A3,4
P1	B3
P2	B4,5
P3	A5
P4	B6
P5	B1
P6	B,C3

WIRES

W7	B2
W8	C2
W9	A2



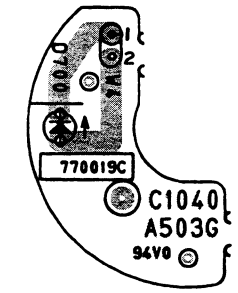
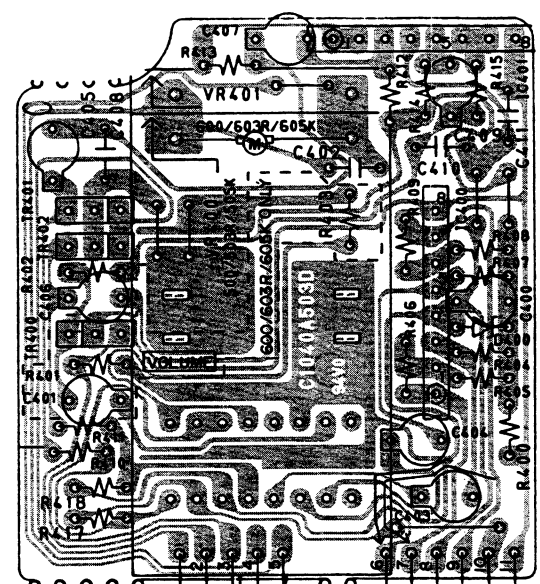
SYSTEM - FLD PCB C1040A503A

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

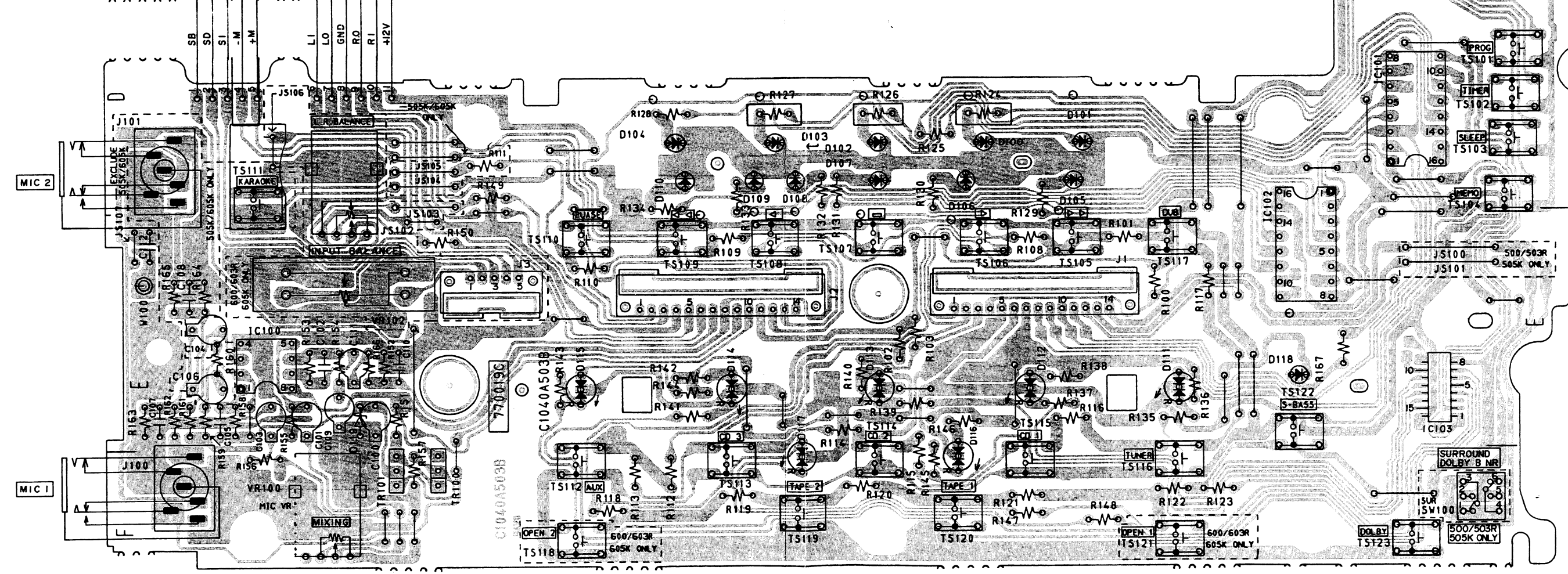
AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT PARTS INFORMATION.

MAIN VR PCB C1040A503D

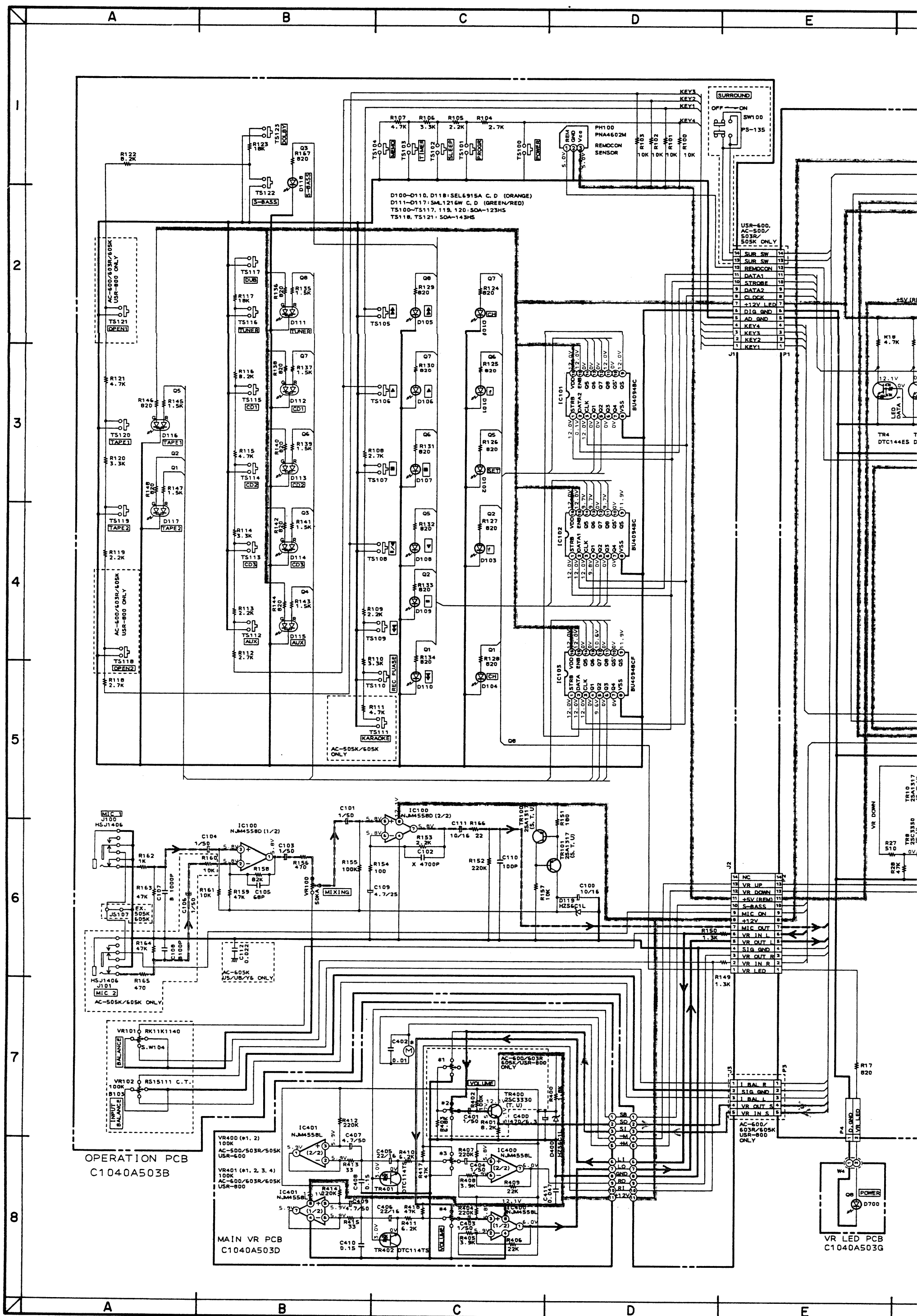


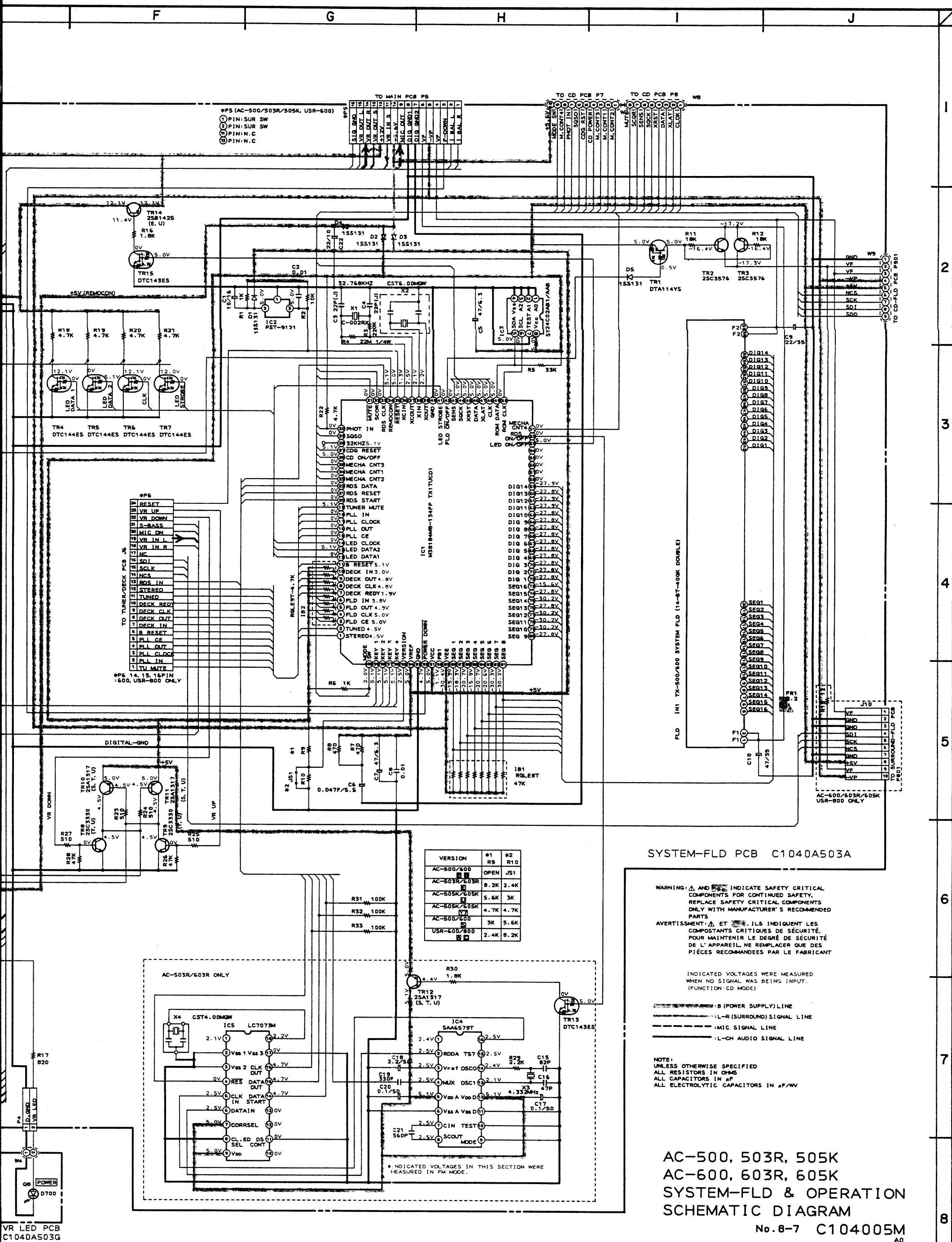
VR LED PCB C1040A503G

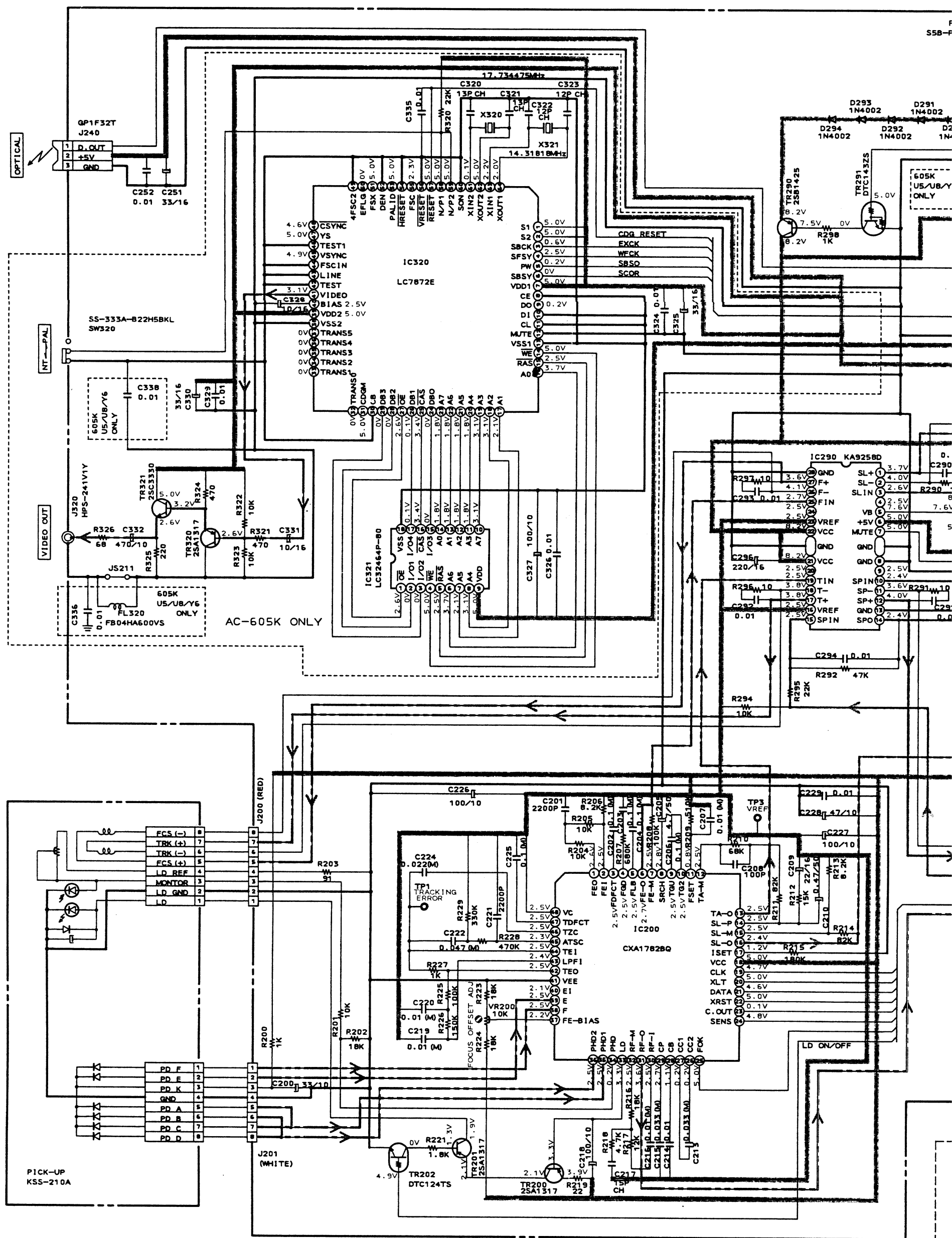


OPERATION PCB C1040A503B

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.

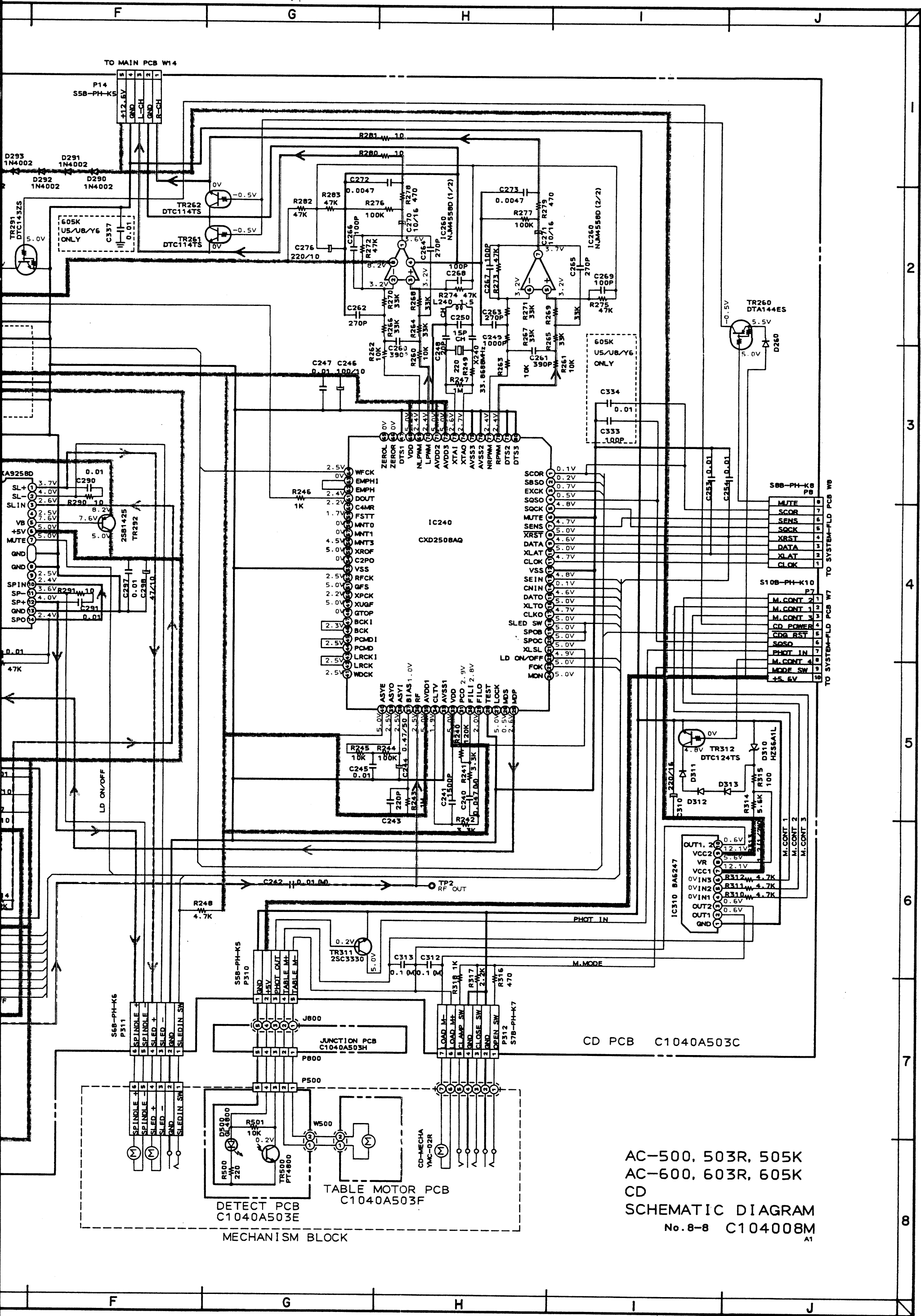






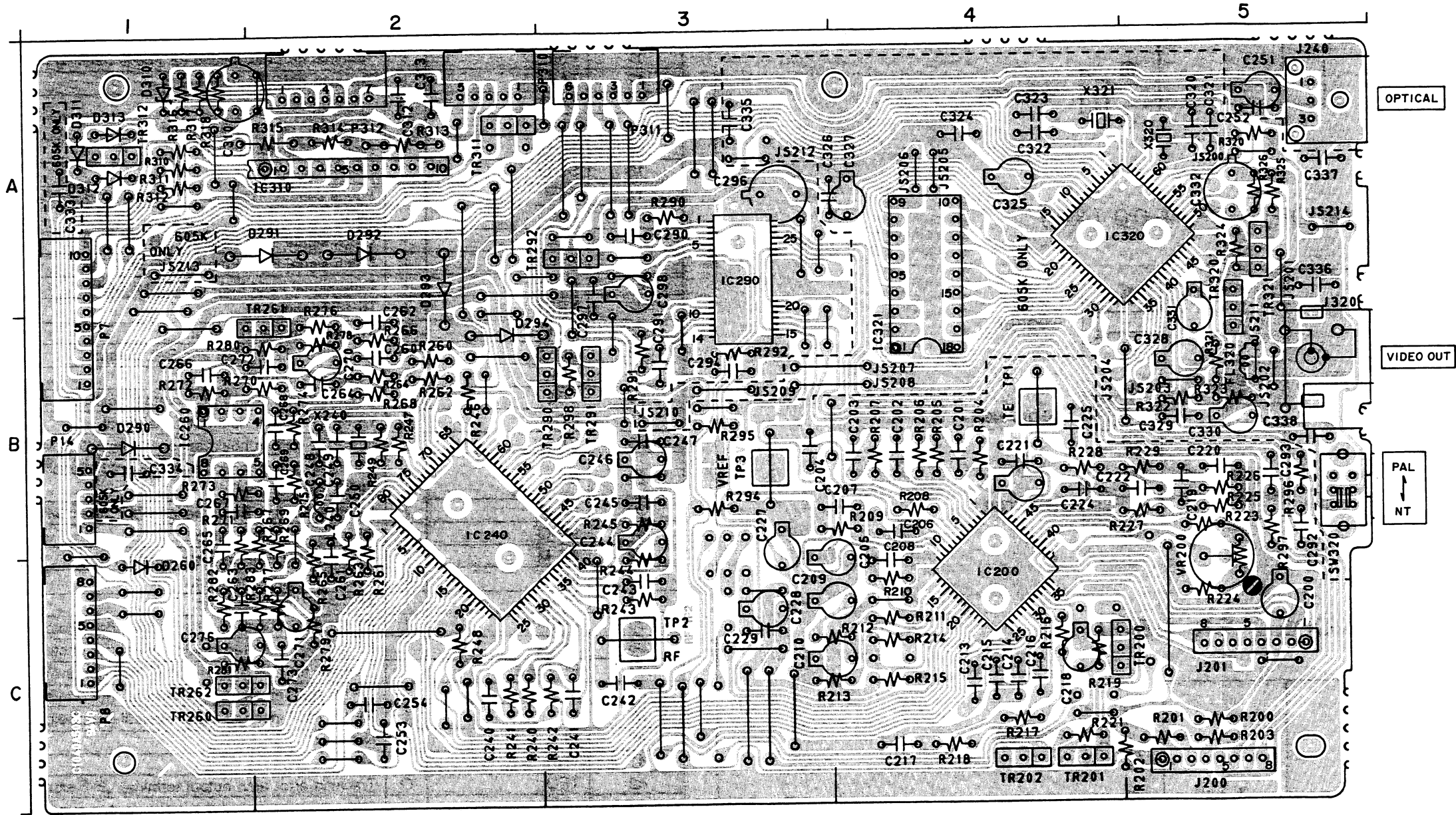
NOTE:
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS
 ALL CAPACITORS IN μ F (P-PF)
 ALL ELECTROLYTIC CAPACITORS IN μ F/W
 ALL DIODES ARE 1SS131T-77
 ALL INDUCTORS IN μ H
 INDICATED VOLTAGES WERE
 MEASURED DURING PLAY MODE.

— B (POWER SUPPLY) LINE
 — SPINDLE MOTOR LINE
 — SLED MOTOR LINE
 — FOCUS SERVO LINE
 — TRACKING SERVO LINE
 — SIGNAL LINE
 — VIDEO SIGNAL LINE
 — RF SIGNAL LINE

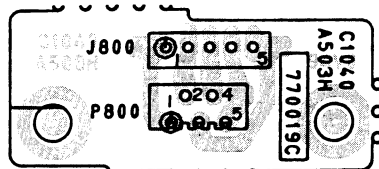


PRINCIPAL PARTS LOCATION

ICs		TRANSISTORS		CONNECTORS	
IC200	C4	TR200	C4,5	P7	A,B1
IC240	B,C2	TR201	C4	P8	C1
IC260	B1,2	TR202	C4	P14	B1
IC290	B,C3	TR260	C1,2	P310	A2
IC310	A2	TR261	B1,2	P311	A3
IC320	A4,5	TR262	C1,2	P312	A2
IC321	A,B4	TR290	B1,2	J200	C5
				J201	C5



CD PCB C1040A503C



JUNCTION PCB
C1040A503H

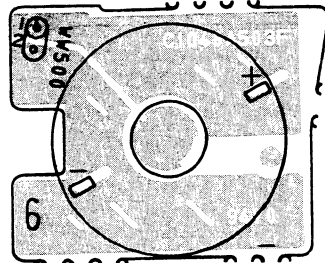
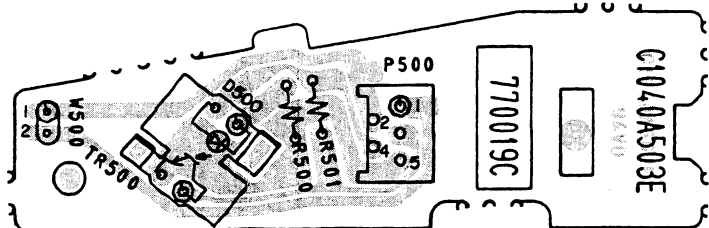
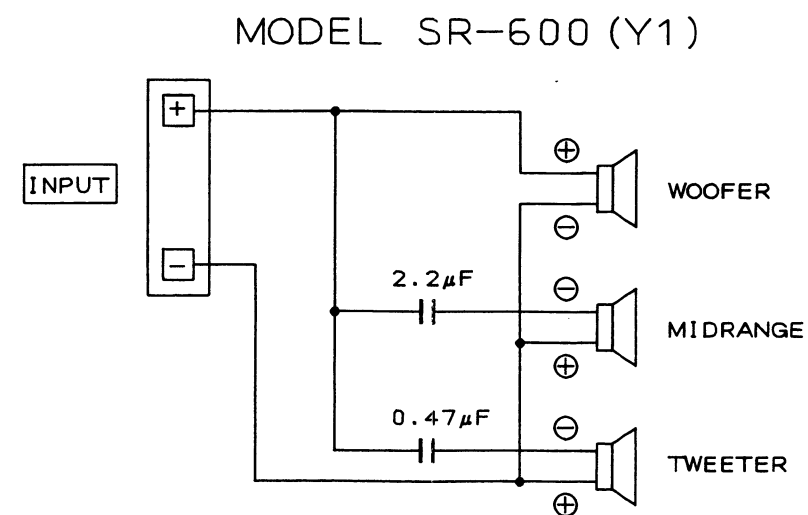
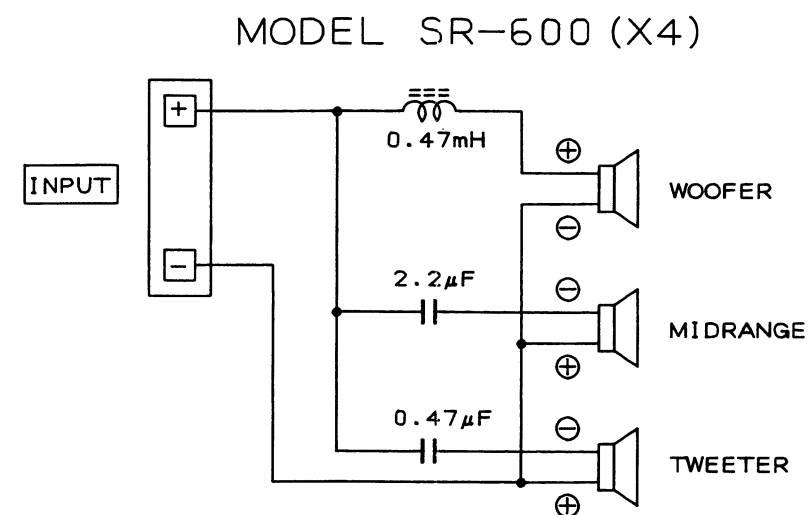
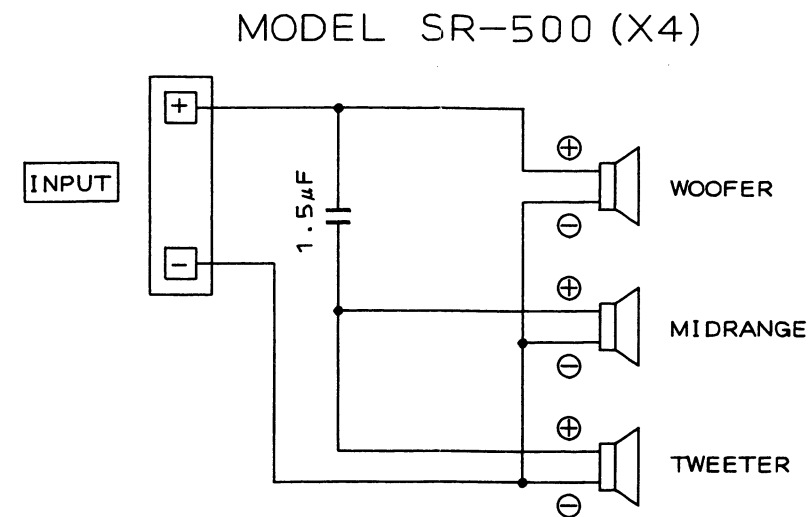


TABLE MOTOR PCB
C1040A503F



DETECT PCB C1040A503E

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTINENT
PARTS INFORMATION.



SR-500, 600
SCHEMATIC DIAGRAM

CXA1782BQ (RF I-V AMP/RF AMP)

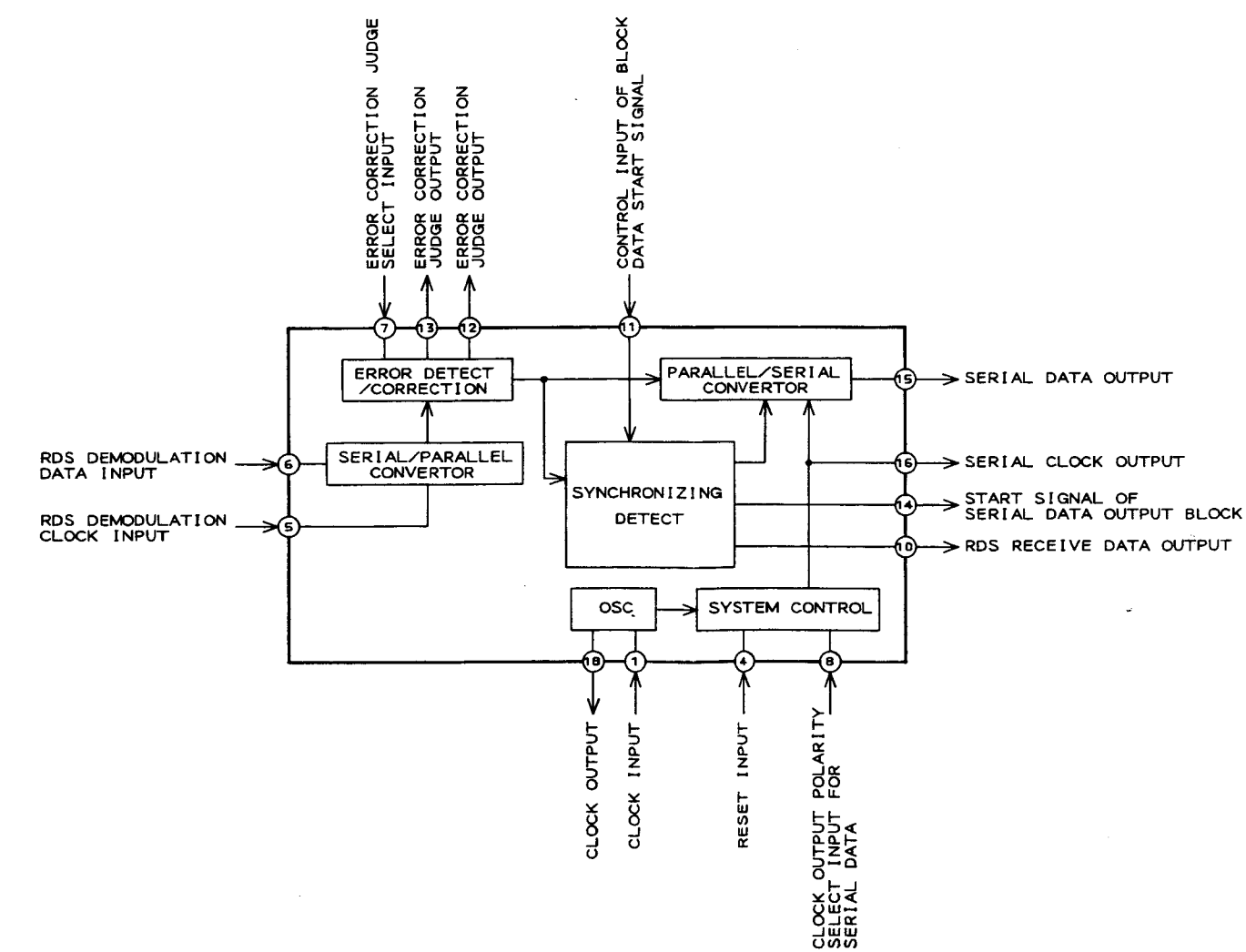
PIN No.	PORT NAME	I/O	FUNCTION
1	FEO	O	Focus drive output.
2	FEI	I	Focus error signal input.
3	FDFCT	I	Time constant capacitor connecting terminal at time of defect.
4	FGD	I	Connect condenser for Focus servo gain control.
5	FLB	I	Connect condenser for Focus servo correction.
6	FE-O	O	Focus drive output.
7	FE-M	I	FOCUS AMP Inverting input.
8	SRCH	I	Connect condenser for Focus search wave.
9	TGU	I	Connect condenser for Trackink gain select.
10	TG2	I	Connect condenser for Tracking gain select.
11	FSET	I	Terminal for peak setting for Focus tracking phase compensation.
12	TA-M	I	Tracking AMP Inverting input.
13	TA-O	O	Tracking drive output.
14	SL-P	I	Sled AMP non-inverting input.
15	SL-M	I	Sled AMP Inverting input.
16	SL-O	O	Sled drive output.
17	ISET	I	Focus search, Track jump and slide kick current input.
18	Vcc	-	+5 V
19	CLK	I	Clock signal input from the CD MI-COM.
20	XLT	I	Lutch signal input from the CD MI-COM.
21	DATA	I	Data signal input from the CD MI-COM.
22	XRST	I	RESET input.
23	C.OUT	O	Track count signal output.
24	SENS	O	FZC,DFCT,TZC,GAIN and BAL output.
25	FOK	O	Focus OK signal output.
26	CC2	I	Input terminal of DEFECT bottom hold output which is supplied through capcitor.
27	CC1	O	DEFECT bottom hold output terminal.
28	CB	I	DEFECT bottom hold capacitor connecting terminal.
29	CP	I	Terminal for connection of MIRR hold capacitor. (Non inverted input terminal of MIRR comparator.)
30	RF-I	I	Input terminal of RF summing AMP output which is supplied through a capacitor.
31	RF-O	O	RF summing AMP output.
32	RF-M	I	RF summing AMP inverted input terminal.
33	LD	O	APC AMP output terminal.
34	PHD	I	APC AMP input terminal.
35	PHD1	I	RF I-V AMP inverted input terminal (for photo diode A+C of pick up)
36	PHD2	I	RF I-V AMP inverted input terminal (for photo diode B+D of pick up)
37	FE-BIAS	I	Terminal for bias adjustment of focus error amp.
38	F	I	RF I-V AMP inverted input terminal (for photo diode F of pick up)
39	E	I	RF I-V AMP inverted input terminal (for photo diode E of pick up)
40	EI	-	Not used
41	VEE	-	GND
42	TEO	O	Tracking error amp output terminal. (E-F signal output.)
43	LPFI	I	BAL adjustment of comperator input terminal.
44	TEI	I	Tracking error input terminal.
45	ATSC	I	Window comperator input input terminal for ATSC detection.
46	TZC	I	Input terminal of tracking zero cross comparator.
47	TDFCT	I	Time constant capacitor connecting terminal at time of defect.
48	VC	O	(Vcc+VEE)/2 DC voltage output terminal.

CXD2508AQ (CD DIGITAL SIGNAL PROCESS & SYSTEM CONTROL MI-COM)

Pin No.	PORT NAME	I/O	FUNCTION
1	SCOR	O	H output when either sub code S0 or S1 is detected.
2	SBSO	O	Serial output of Sub P to W.
3	EXCK	I	Clock input for SBSO read out.
4	SQSO	O	Serial output of SUBQ 80 bit.
5	SQCK	I	Clock input for SQSO read out.
6	MUTE	I	Muteing control. (H : MUTE, L : CANCEL)
7	SENS	O	SENS output. Output to the OPERATION MI-COM.
8	XRST	I	System reset. Reset at L.
9	DATA	I	Serial data input from THE OPERATION MI-COM.
10	XLAT	I	Latch input from the OPERATION MI-COM. (Latching of serial data at falling edge of the pulse.)
11	CLOK	I	Serial data transmission clock input from the OPERATION MI-COM.
12, 53	Vss	-	GND
13	SEIN	I	Sense input from SSP.
14	CNIN	I	Track jump number count signal input.
15	DATO	O	Serial data output to SSP.
16	XLTO	O	Serial data latch output to SSP. (Latching at fallingedge of the pulse.)
17	CLKO	O	Serial data transmission clock output to SSP.
18	SLED SW	I	Innermost position ON/OFF detection input of sled motor. (Input A)
19	SPOB	I	Innermost position ON/OFF detection input of sled motor. (Input B)
20	SPOC	I	Innermost position ON/OFF detection input of sled motor. (input C)
21	XLSL	I	X'tal selection input terminal. L when X'tal is 16.9344 MHz. H when 33.8688 MHz.
22	LD ON/OFF	O	Laser diode ON/OFF control.
23	FOK	I	Focus OK input terminal. For SENS output and servo automatic sequencer.
24	MON	-	Not used
25	MDP	O	Servo control for spindle motor.
26	MDS	-	Not used
27	LOCK	-	Not used
28	TEST	-	Regular GND for TEST terminal.
29	FILO	O	Filter output for master PLL. (slave = digital PLL)
30	FILI	I	Filter input for master PLL.
31	PCO	O	Charge pump output for master PLL.
33, 75, 76	AVss1 ~ 3	-	GND
34	CLTV	I	VCO control voltage input for master.
36	RF	I	EFM signal input.
37	BIAS	I	Asymmetry circuir constant current input.
38	ASYI	I	Asymmetry compilasion voltage input.
39	ASYO	O	EFM full swing output. (L = Vss, H = VDD)
40	ASYE	I	L : Asymmetry circuit OFF H : Asymmetry circuit ON.
41	WDCK	-	Not used
42	LRCK	O	D/A interface for 48 bit slot. LR clock f = Fs
43	LRCKI	I	LR clock input to DAC.
44	PCMD	O	Serial data from D/A interface.
45	PCMDI	I	Audio data input to DAC.
46	BCK	O	Bit clock from D/A interface.
47	BCKI	I	Bit clock input to DAC.
48	GTOP	-	Not used
49	XUGF	-	
50	XPCK	-	
51	GFS	-	
52	RFCK	-	
54	C2PO	-	
55	XROF	-	
56	MNT3	-	
57	MNT1	-	
58	MNT0	-	
59	FSTT	-	
60	C4MR	-	
61	DOUT	O	Digital out terminal.

Pin No.	PORT NAME	I/O	FUNCTION
62	EMPH	O	H output when a playback disc is emphasised. L output when no emphasis.
63	EMPHI	I	De-emphasis control input. (H : ON, L : OFF)
64	WFCK	O	WFCK (Write Frame Clock) output.
65	ZEROL	-	Not used
66	ZEROR	-	Not used
67, 79, 80	DTS1 ~ 3	-	GND
69	NLPWM	O	L-ch PWM output. (opposite phase)
70	LPWM	O	L-ch PWM output. (in-phase)
73	XTAI	I	33.8688 MHz X'tal oscillation circuit input.
74	XTAO	O	33.8688 MHz X'tal oscillation circuit output.
77	NRPWM	O	R-ch PWM output. (opposite phase)
78	RPWM	O	R-ch PWM output. (in-phase)

LC7073M (RDS DATA PROCESS)



M38173M6-354FP (DECK SYSTEM CONTROL MI-COM)

Pin No.	PORT NAME	I/O	FUNCTION
1	1k BPF	I	1 kHz A/D input for spectrum analyzer.
2	250 BPF	I	250 Hz A/D input for spectrum analyzer.
3	60 BPF	I	60 Hz A/D input for spectrum analyzer.
4	HI BOOST	O	G.EQ control
5	LOW CUT		
6	MID BOOST		
7	HI CUT		
8	LOW BOOST	O	Ready signal output to the OPERATION MI-COM.
9	RDY		
10	CLOCK		
11	DATA OUT		
12	DATA IN	I	Data input from the OPERATION MI-COM.
13	OUTPUT SW	O	DECK muting control & MIC ON/OFF control. (L : mute ON, MIC ON)
14	V.FADE 1	O	Vocal fading control output (2 bits). To be used for selection of vocal fading, multiplex, through or mute.
15	V.FADE 2		
16	KEYCON DATA	O	Data output to the KEY-CON IC.
17	KEYCON CLOCK	O	Clock output to the KEY-CON IC.
18	KEYCON ST	O	Strobe signal output to the KEY-CON IC.
19	INPUT B	O	Input select control (TUNER, CD, TAPE or AUX).
20	INPUT A		
21	MIC ECHO A	O	Selection of MIC, ECHO, 2-CH surround or DOLBY surround mode.
22	MIC ECHO B		
23	MIC ECHO C		
24	KEYCON ON/OFF	O	KEY-CON mode ON/OFF control output (H : KEY-CON on).
25	KARAOKE	I	KARAOKE function ON/OFF control input. (H : ON)
26	MIC ON/OFF	I	Detection of a microphone is connected or not.
27	RESET	I	Reset signal input (L : reset).
28	XCIN	I	Not used.
29	XCOUT	O	
30	XIN	I	X'tal connecting pin.
31	XOUT	O	
32, 74	Vss	-	GND
33	ECHO LEVEL 3	O	ECHO level control output (3 bits, 6 steps).
34	ECHO LEVEL 2		
35	ECHO LEVEL 1		
36	AMP MUTE	O	PRE AMP muting control output (L : mute).
37	POWER ON/OFF	O	Power ON/OFF control output (H : power ON).
38	PACK MUTE	O	POWER AMP muting control output (H : mute).
39	PROTECT	I	Input for detection of PROTECT operation.
40	BOP	I	Blank output pulse input (H : blank).
41	MIC DELAY	O	MIC & DOLBY delay time select output. (L : 30 mS, H : 120 mS).
42	VR UP	O	Main VR control output (UP).
43	VR DOWN	O	Main VR control output (DOWN).
44	S.BASS	O	Super bass ON/OFF control input. (H : ON)
45	CAP1 ON/OFF	O	TAPE-I capstan motor ON/OFF control output (H : ON).
46	CAP2 ON/OFF	O	TAPE-II capstan motor ON/OFF control output (H : ON).
47	PL COM	O	Plunger ON/OFF (common) control output (L : active).
48	TAPE1 PL	O	TAPE-I plunger ON/OFF control output (H : active).
49	TAPE2 PL	O	TAPE-II plunger ON/OFF control output (H : active).
50	CAP2 X1/X2	O	TAPE-II capstan motor speed switching output (H : X1, L : X2).
51	CAP1 X1/X2	O	TAPE-I capstan motor speed switching output (H : X1, L : X2).
52	REC/PB	O	Head REC/PB control output (H : PB).
53	PB PEAK X2	O	X1/X2 PB peaking frequency select control output (L : X1).
54	DOLBY REC/PB	O	DOLBY REC/PB control output (L : PB).
55	TAPE2 120/70	O	TAPE-II PB EQ switching output (H : 120 μ s).
56	TAPE1 120/70	O	TAPE-I PB EQ switching output (H : 120 μ s).
57	DOLBY ON/OFF	O	DOLBY ON/OFF control output (L : off).
58	TAPE 1/2	O	TAPE-I/II playback switching control output (H : TAPE-I).
59	REC EQ X1/X2	O	REC EQ X1/X2 control output (H : X1).

Pin No.	PORT NAME	I/O	FUNCTION
60	REC MUTE	O	REC mute control output (L : mute).
61	INPUT MUTE	O	REC input signal muting control (L : mute).
62	PB MUTE	O	Playback muting control output (L : mute).
63	SEARCH	O	PRE AMP gain control when AMS function is ON.
64	OSC	O	Erasing OSC ON/OFF control output (H : on).
65	2 R. REC	I	TAPE-II reverse recording inhibit input.
66	2 F. REC	I	TAPE-II forward recording inhibit input.
67	2 PACK SW	I	TAPE-II pack detect input.
68	2 120/70 SW	I	TAPE-II 120 μ s/70 μ s tape detect input (L : 120 μ s).
69	2 PLAY SW	I	TAPE-II head position detect input. (L : PB)
70	1 PACK SW	I	TAPE-I pack detect input.
71	1 120/70 SW	I	TAPE-I 120 μ s/70 μ s tape detect input (L : 120 μ s).
72	1 PLAY SW	I	TAPE-I head position detect input. (L : PB)
73	VCC	-	+5 V.
74	VEE	-	To be grounded.
75	AVss	-	To be grounded.
76	VREF	-	To be connected to +5 V line.
77	2 PULSE	I	TAPE-II reel pulse input.
78	1 PULSE	I	TAPE-I reel pulse input.
79	16k BPF	I	16 kHz A/D input for spectrum analyzer.
80	4k BPF	I	4 kHz A/D input for spectrum analyzer.

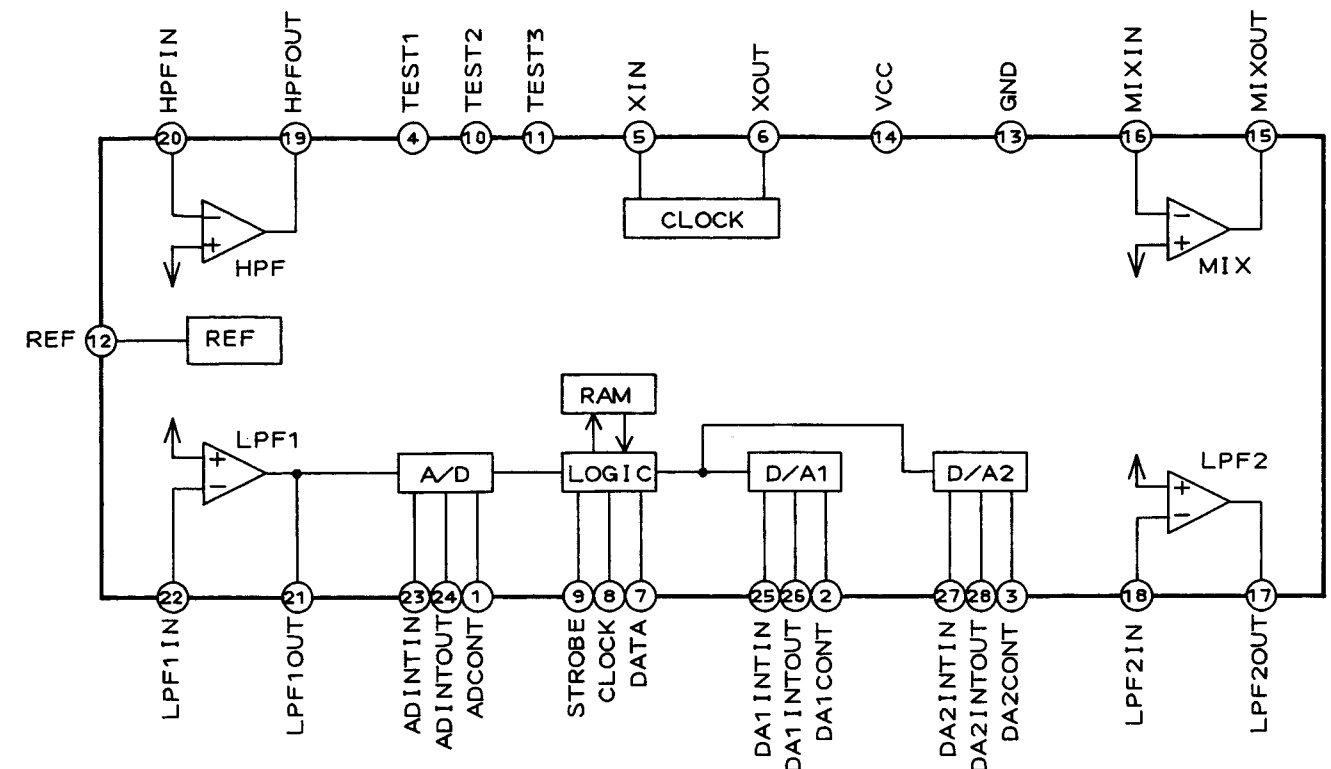
M38184M8-167FP (DECK SYSTEM CONTROL MI-COM)

Pin No.	PORT NAME	I/O	FUNCTION
1	60 BPF	I	60 Hz A/D input for spectrum analyzer.
2	HI BOOST	O	G.EQ control
3	LOW CUT		
4	MID BOOST		
5	HI CUT		
6	LOW BOOST		
7	RDY	O	Ready signal output to the OPERATION MI-COM.
8	CLOCK	I	Clock signal input from the OPERATION MI-COM.
9	DATA OUT	O	Data output to the OPERATION MI-COM.
10	DATA IN	I	Data input from the OPERATION MI-COM.
11, 19, 95	—	—	Not used
12	FL DATA	O	Data output to the surround FLD driver.
13	FL CLOCK	O	Clock output to the surround FLD driver.
14	FL CE	O	Chip enable output to the surround FLD driver.
15	DOLBY SURROUND ON/OFF	O	DOLBY surround ON/OFF control out (H : ON)
16	DOLBY SURROUND STB	O	DOLBY surround control strobe signal output.
17	DOLBY SURROUND DATA	O	DOLBY surround control data output.
18	DOLBY SURROUND CLOCK	O	DOLBY surround control clock output.
20	KARAOKE	I	KARAOKE function ON/OFF control input. (H : ON)
21	OUTPUT SW	O	DECK muting control & MIC ON/OFF control. (L : mute ON, MIC ON)
22	V.FADE 1	O	Vocal fading control output (2bits). To be used for selection of vocal fading, multiplex, through or mute.
23	V.FADE 2		
24	KEYCON DATA	O	Data output to the key control IC.
25	KEYCON CLOCK	O	Clock output to the key control IC.
26	KEYCON ST	O	Strobe signal output to the key control IC.
27	INPUT B	O	Input select control (TUNER, CD, TAPE or AUX).
28	INPUT A		
29	MIC ECHO A		
30	MIC ECHO B	O	Selection of MIC, ECHO, 2-CH surround or DOLBY surround mode.
31	MIC ECHO C		
32	KEYCON ON/OFF	O	KEY-CON mode ON/OFF control output (H : KEY-CON on)
33	HEADPHON	I	Detection of a headphone is connected or not.
34	MIC ON/OFF	I	Detection of a microphone is connected or not.
35	RESET	I	Reset signal input (L : reset).
36	XCIN	I	Not used.
37	XCOUT	O	
38	XIN	I	X'tal connecting pin.
39	XOUT	O	
40	Vss	—	To be grounded.
41	ECHO LEVEL 3	O	ECHO level control output (3 bits, 6 steps).
42	ECHO LEVEL 2		
43	ECHO LEVEL 1		
44	AMP MUTE	O	PRE AMP muting control output (L : mute).
45	POWER ON/OFF	O	Power ON/OFF control output (H : power ON).
46	PACK MUTE	O	POWER AMP muting control output (H : mute).
47	PROTECT	I	Input for detection of PROTECT operation.
48	BOP	I	Blank output pulse input (H : blank).
49	MIC DELAY	O	MIC & DOLBY delay time select output. (L : 30 mS, H : 120 mS).
50	VR UP	O	Main VR control output (H : UP).
51	VR DOWN	O	Main VR control output (H : DOWN).
52	S.BASS	O	Super bass ON/OFF control input.(H : ON)
53	CAP1 ON/OFF	O	TAPE-I capstan motor ON/OFF control output (H : ON).
54	CAP2 ON/OFF	O	TAPE-II capstan motor ON/OFF control output (H : ON).
55	PL COM	O	Plunger ON/OFF (common) control output (L:active).
56	TAPE1 PL	O	TAPE-I plunger ON/OFF control output (H : active).
57	TAPE2 PL	O	TAPE-II plunger ON/OFF control output (H : active).
58	CAP2 X1/X2	O	TAPE-II capstan motor speed switching output (H : X1, L : X2).
59	CAP1 X1/X2	O	TAPE-I capstan motor speed switching output (H : X1, L : X2).
60	REC/PB	O	Head REC/PB control output (H : PB).

Pin No.	PORT NAME	I/O	FUNCTION
61	PB PEAK X2	O	X1/X2 PB peaking frequency select control output (L : X1).
62	DOLBY REC/PB	O	DOLBY REC/PB control output (L : PB).
63	TAPE2 120/70	O	TAPE-II PB EQ switching output (H : 120 μ s).
64	TAPE1 120/70	O	TAPE-I PB EQ switching output (H : 120 μ s).
65	DOLBY ON/OFF	O	DOLBY ON/OFF control output (L : OFF).
66	TAPE 1/2	O	TAPE-I/II playback switching control output (H : TAPE-I).
67	REC EQ X1/X2	O	REC EQ X1/X2 control output (H : X1).
68	REC MUTE	O	REC mute control output (L : mute).
69	INPUT MUTE	O	REC input signal muting control (L : mute).
70	PB MUTE	O	Playback muting control output (L : mute).
71	SEARCH	O	PRE AMP gain control when AMS function is ON.
72	OSC	O	Erasing OSC ON/OFF control output (H : ON).
73	1 FWD	O	TAPE-I EJECT motor direction control (forward).
74	1 REV	O	TAPE-I EJECT motor direction control (reverse).
75	2 FWD	O	TAPE-II EJECT motor direction control (forward).
76	2 REV	O	TAPE-II EJECT motor direction control (reverse).
77	2 OPEN	I	TAPE-II cassette holder open position detect input (H : open).
78	2 CLOSE	I	TAPE-II cassette holder close position detect input (H : close).
79	1 OPEN	I	TAPE-I cassette holder open position detect input (H : open).
80	1 CLOSE	I	TAPE-I cassette holder close position detect input (H : close).
81	2 R.REC	I	TAPE-II reverse recording inhibit input.
82	2 F.REC	I	TAPE-II forward recording inhibit input.
83	2 PACK SW	I	TAPE-II pack detect input. (H : no pack)
84	2 120/70 SW	I	TAPE-II 120 μ s/70 μ s tape detect input (L : 120 μ s).
85	2 PLAY SW	I	TAPE-II head position detect input. (L : PB)
86	1 PACK SW	I	TAPE-I pack detect input. (H : no pack)
87	1 120/70 SW	I	TAPE-I 120 μ s/70 μ s tape detect input (L : 120 μ s).
88	1 PLAY SW	I	TAPE-I head position detect input. (L : PB)
89	VEE	—	To be grounded.
90	1 PULSE	I	TAPE-I reel pulse input.
91	Vcc	—	+5 V.
92	2 PULSE	I	TAPE-II reel pulse input.
93	AVss	—	To be grounded.
94	VREF	—	No connection.
96	SURROUND LEVEL	I	Surround level detect input.
97	16k BPF	I	16 kHz A/D input for spectrum analyzer.
98	4k BPF	I	4 kHz A/D input for spectrum analyzer.
99	1k BPF	I	1 kHz A/D input for spectrum analyzer.
100	250 BPF	I	250 Hz A/D input for spectrum analyzer.

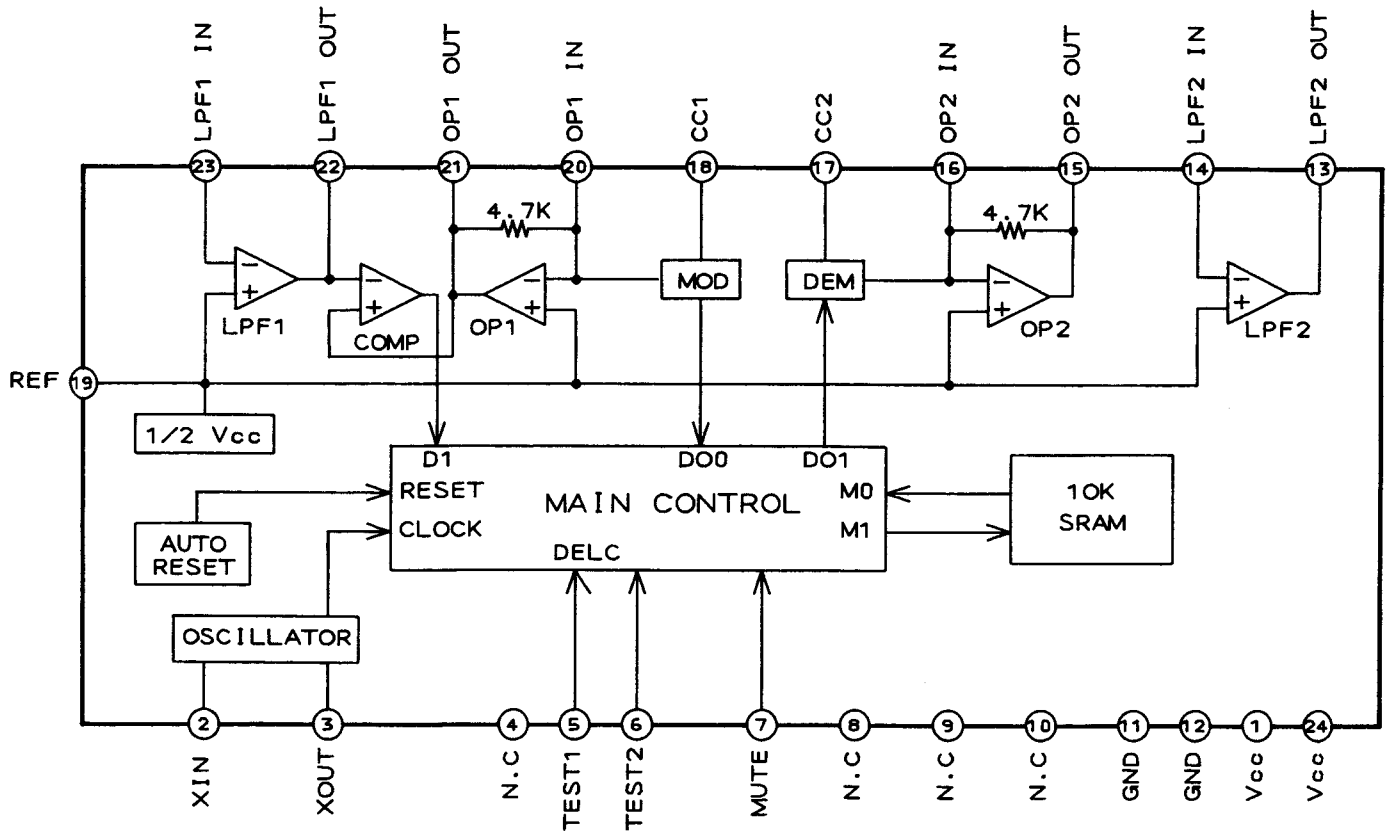
M38184M8-134FP (OPERATION MI-COM)

Pin No.	PORT NAME	I/O	FUNCTION
1	STEREO	I	A/D input for the STEREO indicator.
2	TUNED	I	A/D input for the TUNED indicator.
3	CD FLD CE	O	Chip enable output to the CD-FLD driving IC.
4	CD FLD CLK	O	Clock output to the CD-FLD driving IC.
5	CD FLD OUT	O	Serial data output to the CD-FLD driving IC.
6	CD FLD IN	I	Serial data input from the CD-FLD driving IC.
7	DECK REDY	I	Ready signal input from the DECK MI-COM.
8	DECK CLK	O	Clock signal output to the DECK MI-COM.
9	DECK OUT	O	Serial data output to the DECK MI-COM.
10	DECK IN	I	Serial data input from the DECK MI-COM.
11	B RESET	O	Reset output to the DECK MI-COM.
12	LED DATA1	O	Data output for the operation LEDs.
13	LED DATA2	O	Data output for the operation LEDs.
14	LED CLOCK	O	Clock output for the operation LEDs.
15	PLL CE	O	PLL chip enable output to the tuner unit.
16	PLL OUT	O	PLL control data output to the tuner unit.
17	PLL CLOCK	O	Clock signal output to the tuner unit.
18	PLL IN	I	PLL control data input from the tuner unit.
19	TUNER MUTE	O	Tuner muting control output. (H : MUTE ON)
20	RDS START	I	Start signal input for RDS control.
21	RDS RESET	O	Reset output to RDS error correction IC.
22	RDS DATA	I	Data input for RDS control.
23	MECHA CNT2	O	CD's loading motor & table motor control outputs.
24	MECHA CNT1		
25	MECHA CNT3		
26	CD POWER	O	Power supply ON/OFF control for CD scetion (H : CD on).
27	CDG RESET	O	CD-G reset output (L : reset).
28	32KHz	O	Output for timer adjust (Output only when the timer adjust test mode).
29	SQSO	I	Serial data input from the CD MI-COM.
30	PHOT IN	I	Input from the TRAY position detect photo sensor.
31	MUTE	O	CD's audio out muting control (L : mute).
32	SCOR	I	Sub code detect input from the CD MI-COM.
33	RDS CLK	I	Clock signal input for RDS control.
34	REMOCON	I	Remote control signal input from the detector.
35	RESET	I	Reset switch input.
36	XCIN	I	32.768 kHz X-tal input for clock.
37	XCOUT	O	Output to the 32.768 kHz X-tal.
38	XIN	I	6.0 MHz X-tal input.
39	XOUT	O	Output to the 6.0 MHz X-tal.
40	GND	-	Ground pin.
41	LED STROBE	O	Storobe signal output for the operation LEDs.
42	FLD ON/OFF	O	FLD's filament ON/OFF control (L : ON)
43	SENS	I	SENS input from the CD MI-COM.
44	SQCK	O	SQSO clock output to the CD MI-COM.
45	XRST	O	Reset output to the CD MI-COM.
46	DATA	O	Serial data output to the CD MI-COM.
47	XLAT	O	Latch output for the CD MI-COM.
48	CLK	O	Serial clock output to the CD MI-COM.
49	ROM DATA	I/O	Data in/out pin from/to the EEP-ROM IC.
50	ROM CLK	O	Clock output to the EEP-ROM IC.
51	MECHA CNT4	O	CD's loading motor & table motor speed control output.
52	RDS ON/OFF	O	Power supply on/off control for the RDS circuit (FM band H).
53	LED ON/OFF	O	Power supply ON/OFF control for the operation LEDs.
54-58	-	-	Not used.
59 ~ 72	DIG 14 ~ 1	O	SYSTEM-FLD's grid drive outputs.
73 ~ 88	SEG 16 ~ 1	O	SYSTEM-FLD's segment drive outputs.
89	VEE	-	Negative power supply input for FLD blanking.
90	PB1	-	Not used.
91	Vcc	-	+5 V power supply input.
92	POWER DOWN	I	Back up voltage detection. (L : back up OK)
93	GND	-	Ground pin of this IC.
94	VREF	-	Reference voltage input (connect to + 5 V line).
95	VERSION	I	A/D input for version setting of the unit.
96 ~ 99	KEY 4 ~ 1	I	A/D input from the operation switches.
100	MODE SW	I	A/D input from the CD's tray switches.

M65840FP (DIGITAL KEY-CONTROL)


PIN No.	PORT NAME	I/O	FUNCTION
1	ADCONT	-	Fixes the optimum time constant of ADM system A/D conversion.
2	DA1CONT	-	Fixes the optimum time constant of ADM system D/A1 conversion.
3	DA2CONT	-	Fixes the optimum time constant of ADM system D/A2 conversion.
4	TEST 1	-	Test pin (L : normal mode, H : test mode).
5	X IN	I	X'tal OSC input (16 MHz).
6	X OUT	O	X'TAL OSC output (16 MHz).
7	DATA	I	Serial bus data input.
8	CLOCK	I	Serial bus clock input.
9	STROBE	I	Serial bus strobe input.
10, 11	TEST 2,3	-	Not used.
12	REF	O	Reference voltage output (1/2 Vcc output). A filtering capacitor should be connected to this pin.
13	GND	-	Ground pin of this IC.
14	Vcc	-	+5 V power supply.
15	MIXOUT	O	Mixes the key controlled low frequency range signal with the through high frequency range signal.
16	MIXIN	I	
17	LPF2OUT	O	Post filter, after D/A conversion for key control.
18	LPF2IN	I	
19	HPFOUT	O	High pass filter for high through.
20	HPFIN	I	
21	LPF1OUT	O	Pre filter, before A/D conversion for key control.
22	LPF1IN	I	
23	ADINTIN	I	Constructs the integrator for A/D conversion from the external capacitor.
24	ADINTOUT	O	
25	DA1INTIN	I	Constructs the integrator for D/A1 conversion from the external capacitor.
26	DA1INTOUT	O	
27	DA2INTIN	I	Constructs the integrator for D/A2 conversion from the external capacitor.
28	DA2INTOUT	O	

M65843P (DIGITAL ECHO)



PIN No.	PORT NAME	I/O	FUNCTION
1	VDD	-	+5 V power supply for digital section.
2	X IN	I	X'tal OSC input.
3	X OUT	-	X'tal OSC output.
4	NC	-	No connection.
5	TEST 1	I	Test pin (fixed H in the normal condition).
6	TEST 2	I	Test pin (fixed L in the normal condition).
7	MUTE	I	Mute control input (L : mute).
8 ~ 10	NC	-	No connection.
11	D.GND	-	Digital ground.
12	A.GND	-	Analog ground.
13	LPF2 OUT	O	Constructs the output side low pass filter from the externally connected capacitor & resistor.
14	LPF2 IN	I	
15	OP2 OUT	O	Constructs the integrator for demodulation from the externally connected capacitor & resistor.
16	OP2 IN	I	
17	CC2	-	Current control for demodulator ADM control.
18	CC1	-	Current control for modulator ADM control.
19	REF	-	Analog reference voltage (1/2 Vcc).
20	OP1 IN	I	Constructs the integrator for modulation from the externally connected capacitor & resistor.
21	OP1 OUT	O	
22	LPF1 OUT	O	Constructs the input side low pass filter from the externally connected capacitor & resistor.
23	LPF1 IN	I	
24	Vcc	-	+5 V analog power supply.

SAA6579T (RDS DEMODULATOR)

PIN No	PORT NAME	I/O	FUNCTION
1	QUAL	O	QUALITY INDICATION OUTPUT
2	RDDA	O	RDS DATA OUTPUT
3	VREF	—	REFERENCE VOLTAGE OUTPUT
4	MUX	I	MULTIPLEX SIGNAL INPUT
5	VDD	—	+5 V SUPPLY VOLTAGE FOR ANALOG PART
6	VSS	—	GND FOR ANALOG PART
7	CIN	I	SUBCARRIER INPUT TO COMPARATOR
8	SCOUT	O	SUBCARRIER OUTPUT OF RECONSTRUCTION FILTER
9	MODE	I	OSCILLATOR MODE / TEST CONTROL INPUT
10	TEST	I	TEST ENABLE INPUT
11	VSS	—	GND FOR DIGITAL PART
12	VDD	—	+5 V SUPPLY VOLTAGE FOR DIGITAL PART
13	OSC1	I	OSCILLATOR INPUT
14	OSC0	O	OSCILLATOR OUTPUT
15	T57	O	57 kHz CLOCK SIGNAL OUTPUT
16	RDCL	O	RDS CLOCK OUTPUT

ABBREVIATIONS (CASSETTE)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AC	Alternating Current	MIN	MINute
A/D	Analog/Digital	MMML	Maximum Modulation Level
AF	Auto Fader	MOL	Maximum Output Level
AMP	AMPlifier	MPX	Multi PleX
AR	Anti Recording	NC	Not Connected (No Connection)
AT BIAS	Auto Turning BIAS	NFB	Negative Feed Back
ATT	ATTenuator	NORM	NORMal
BAL	BALance	NR	Noise Reduction
BEF	Band Elimination Filter	OSC	OSCillator (OSCillation)
BSS	Blank Search System	P	Pulse
CAP M	CAPstan Motor	PB	Play Back
CH	CHannel	QMSS	Quick Memory Search System
COMP	COMParator	QR	Quick Reverse
CONT	CONTinuanance	R CH	Right CHannel
CRLP	Computer Recording Level Processing	REC	RECORD (RECORDing)
CS	Chip Select	REV	REVerse
D/A	Digital/Analog	ROT	ROTation
DC	Direct Current	REW	REWind
DET	DETECTOR	SEC	SECond
DISCRI	DISCRIminator	SELE	SELEctor
DUB	DUBbing	SENS	SENSitivity
EQ	EQUALizer	SEPP	Single Ended Push Pull
FF (or F.FWD)	Fast Foward	SIG	SIGnal
FLD	FLUorescent Display	SPECT	SPECTrum
FREQ	FREQUency	STD	STANdard
FWD	FORwarD	SW	SWitch
GND	GrouND	SYSCON	SYSTEM CONTROL
H	High	TP	Test Point
HPF	High Pass Filter	TRIG	TRIGa
IND	INDicator	VCA	Voltage Control Attenuator
IPLS	Instant Program Location System	VOL	VOLUME
L	Low	VOLT	VOLTage
L CH	Left CHannel	VR	Variable Resistor
LED	Light Emitting Diode	X'TAL	CRYSTAL
MEMO	MEMOry	X1	Normal speed
MICOM	MicroCOMputer	X2	Dubble speed

ABBREVIATIONS (COMPACT DISC)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
A-D	Analog to Digital (Convertor)	MB	Mega Bits
ADC	Analog to Digital (Convertor)	MDA	Mortor Drive Amplifier
BCD	Binary Code Decimal	MFM	Modified Frequency Modulation
BPI	Bits per Inch	MM	Mono-stable Multivibrator
CD	Compact Disc	MOD2	Modulo 2 (Addition)
CIRC	Cross Interleaving & Reed Solomon Coding	MP	Microprocessor
CLV	Constant Linear Velocity	MSB	Most Significant Bit
CP	Clock Pulses	NA	Numerical Aperture
CRCC	Cyclic Redundancy Check Codes	NRZ	Non Return to Zero
D Level	Decision Level	NRZ-1	Non Return to Zero Inverted
D-A	Digital to Analog (Convertor)	P	Parity Data
DAC	Digital to Analog (Convertor)	PAM	Pulse Amplitude Modulation
DAD	Digital Audio Disc	PCM	Pulse Code Modulation
DEM	Dynamic Element Matching	PD	Phase Detector
DPD	Differential Phase Detection	PE	Phase Encode
DSV	Digital Sum Value	PLL	Phase Locked Loop
EFM	Eight to fourteen Modulation	PNM	Pulse Number Modulation
EX-OR	EXclusive OR	PPM	Pulse Phase Modulation
FCI	Flux Changes per Inch	PWM	Pulse Width Modulation
FIR	Finite Impulse Response	Q	Parity Data
FP	Front Pulse	R, R1, R2, etc.	Data for Right Channel
FPG	Front Pulse Gate	RAM	Random Access Memory
f	Frequency of Sampling	RPG	Rear Pulse Gate
GF	Galois Field	S & H	Sample & Hold
H & V (Parity)	Horizontal & Vertical	S/N	Signal to Noise Ratio
IIR	Infinite Impulse Response	SSG	Standard Signal Generator
kb	Kilo Bits	SYSCON	SYStem CONtrol
L, L1, L2, etc.	Data for Left Channel		
LPF	Low Pass Filter		
LSB	Least Significant Bit		

AKAI ELECTRIC CO., LTD.

12-14, 2-Chome, Higashi-Kojiya, Ohta-ku, Tokyo, Japan
SERVICE DEPARTMENT TEL: Tokyo (3745) 9884 TELEX: J26261

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